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I 0665-2 H0670-2	1.0755: 2, 1.0608: 2.	S0026: 2, H0170: 1,	H0686: 1, H0717: 1,	H0656: 1, S0444: 1,	H0580: 1, H0156: 1,	H0178: 1, H0014: 1,	H0252: 1, H0615: 1,	H0674: 1, H0090: 1,	H0063: 1, L0637: 1,	L0372: 1, L0764: 1,	L0765: 1, L0662: 1,	L0766: 1, L0649: 1,	L0650: 1, L0806: 1,	L0653: 1, L0657: 1,	L0659: 1, L0517: 1,	L0529: 1, L5622: 1,	L0789: 1, L0790: 1,	L0663: 1, L0664: 1,	H0144: 1, H0723: 1,	S0126: 1, H0659: 1,	S0378: 1, S0152: 1,	L0741: 1, L0777: 1,	S0434: 1, L0594: 1,	L0595: 1 and H0667: 1.	L0757: 13, L0731: 10,	L0754: 7, L0770: 4,	S0360: 3, H0553: 3,	H0551: 3, L0769: 3,	L0662: 3, L0659: 3,
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1 0 14	JO/47: 5, LO//9: 5,	.0777: 3, L0755: 3,	H0686: 2, S0420:	H0545: 2, L0471: 2,	10673: 2, L0598: 2,	.0646: 2, L0794: 2,	.0806: 2, H0520: 2,	S0330: 2, H0436: 2,	.0740: 2, L0751: 2,	.0756: 2, L0599: 2,	S0011: 2, S0242: 2,	H0170: 1, L0002:	.0808: 1, S0418:	S0444: 1, L0717:	HO587: 1, H0497:	H0333: 1, H	T0039: 1, H0013:	50: 1, L	H0052: 1, S0051:	H0188: 1, S0003:	S0022: 1, S0214:	H0428: 1, H0031:	H0628: 1, S0438:	S0440: 1, H0647:	63: 1, L	.0771: 1, L0648:	0649: 1, L0651:	.0805: 1, L0652:	.0655: 1, L0606:	.0634: 1, L0542:
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					Glu-1 to Gln-8,	Pro-31 to Trp-36.																						
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.0603: 4, H0556: 3,	H0431: 3, H0370: 3	S0010: 3, H0596: 3,	S0388: 3, T0023: 3,	H0031: 3, H0264: 3,	.0564: 3, S0372: 3,	L0769: 3, L0667: 3,	,0521: 3, L0768: 3,	.0774: 3, L0657: 3,	.0783: 3, L.0809: 3,	,0663: 3, S0126: 3,	0122: 3, H0682: 3,	L0759: 3, L0591: 3,	H0352: 3, L0353: 2,	H0686: 2, S0040: 2,	H0295: 2, H0650: 2,	S0045: 2, S0046: 2,	S0132: 2, H0549: 2,	S0222: 2, H0427: 2,	H0156: 2, H0263: 2,	H0597: 2, H0546: 2,	H0046: 2, H0050: 2,	H0024: 2, T0010: 2,	H0375: 2, H0266: 2,	H0271: 2, H0030: 2,	H0553: 2, H0644: 2,	H0674: 2, H0135: 2,	H0591: 2, H0616: 2,	H0412: 2, H0413: 2,	H0059: 2, H0100: 2,
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		Pro-1 to Arg-6, Met-12 to Ser-21.			Ser-35 to Ser-41,	Ile-50 to Gly-55.	Arg-1 to Gly-7.	
	3200	3201	3202	3203	3204		3205	3206
	33 - 164	3 - 398	3 - 392	15 - 455	1 - 201		376 - 564	113 - 475
	1025	1026	1027	1028	1029		1030	1031
	HAOTH28R	HAOTI07R	HAOTT79R	HAOTU79R	HAOTW22 HAOTW22R		HAOTW30 HAOTW30R	HAOTW65 HAOTW65R
	HAOTH28	HAOTI07	HAOTT79	HAOTU79	HAOTW22		HAOTW30	HAOTW65

							L0439: 2, L0755: 2,	S0412: 2, H0170: 1,	H0497: 1, H0591: 1,	H0038: 1, L0641: 1,	L0774: 1, L0651: 1,	L0776: 1, L4501: 1,	L0666: 1, L0663: 1,	H0144: 1, L0438: 1,	S0126: 1, H0659: 1,	H0648: 1, L0602: 1,	L0748: 1, L0749: 1,	L0750: 1, L0756: 1,	L0752: 1, L0759: 1,	L0599: 1 and L0362: 1.					
	Lys-1 to Ser-6, Ala-26 to Thr-31.	Ser-1 to Pro-11.				Ser-13 to Arg-19, Ile-28 to Asn-33.															Ala-19 to Arg-24.	Gly-1 to Thr-12,	Glu-23 to Lys-38.	Ser-119 to Lys-124.	Lys-32 to Arg-40,
3207	3208	3209	3210	3211	3212	3213	3214								-						3215	3216		3217	3218
68 - 232	200 - 313	5 - 193	1 - 258	208 - 396	3 - 299	84 - 203	3-116														1 - 165	108 - 239		3 - 587	2 - 517
1032	1033	1034	1035	1036	1037	1038	1039														1040	1041		1042	1043
HAPNK45R	HAPPR43R	HAPQ014R		HASME85 HASME85R	HAUAK54 HAÜAK54R	HAVMB46 HAVMB46R	HAVMW69 HAVMW69R														HAVNQ92 HAVNQ92R A	<b>HAVOJ11R</b>		HAZAC68R	HAZAD13R
HAPNK45	HAPPR43	HAP0014	HAQML40	HASME85	HAUAK54	HAVMB46	HAVMW69			<del>-</del>											HAVNQ92	HAV0J11		HAZAC68	HAZAD13

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	S0360: 1, H0486: 1, L0761: 1, L0803: 1, L0774: 1, L0666: 1, L0663: 1, L0665: 1, H0520: 1, H0690: 1, H0435: 1 and L0747: 1.		H0424: 16, S0380: 13, L0748: 13, L0750: 12,	S0440: 10, S0444: 9,	L0755: 9, L0758: 9,	S0192: 9, H0484: 8,	S0358: 8, H0545: 8,	L0809: 8, L0747: 8,	L0749: 8, S0360: 7,	S0410: 7, S0406: 7,	L0752: 7, L0766: 6,	S0374: 6, L0751: 6,	L0754: 6, H0423: 6,	S0442: 5, H0672: 5,	S0378: 5, S0404: 5,	L0759: 5, H0556: 4,	S0356: 4, S0376: 4,	H0546: 4, H0150: 4,	S0438: 4, L0775: 4,	L0776: 4, L0518: 4,	S0328: 4, L0740: 4,
Ser-54 to Gly-59, Glu-133 to Ala-147, Gln-153 to Gln-164.	Val-9 to Gly-24.		Gln-12 to Thr-20, Cys-39 to Asn-45,		Lys-99 to Asp-106,	Asp-119 to Pro-127.		, ,													
	3219	3220	3221																		
	191 - 445	3-512	2 - 466																		
	1044	1045	1046																		
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	Pro-48 to Gly-59.	Gly-2 to Ser-9, Pro-46 to Cys-60, Pro-62 to His-69.	Pro-81 to Thr-91, Ala-96 to Ser-101.	Lys-11 to Ser-16, Arg-20 to Glu-28.	
	3222	3223		3224	
	282 - 467	138 - 515		1 - 165	
	1047	1048		1049	
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		Phe-34 to Lys-41.
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S0376-3 S0440-3	5,00	S0374: 3, H0521: 3,	S0040: 2, S0418: 2,	S0444: 2, H0580: 2,	10486: 2, H0575	.0471: 2, H0024: 2,	H0553: 2, L0637: 2,	S0126: 2, S0406: 2,	S0028: 2, L0748: 2,	754: 2, LO	S0434: 2, L0590: 2,	30242: 2, H0686:	10685: 1, H0664:	S0420: 1, L0005:	S0360: 1, S04	S0045: 1, S04	S0278: 1, HO	H0586: 1, T0039: 1	H0635: 1, H0427	.0022: 1, HO	H0505: 1, S00	H0251: 1, H0263:	70003: 1, HO	H0051: 1, H0356:	H0622: 1, H0644:	H0090: 1, H0	H0623: 1, H0560:	H0641: 1, H0633:	S0142: 1, S0208:	.0773: 1, LO
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		ì												Ser-54 to Ser-60,	Ile-69 to Gly-74.	Ala-17 to Asp-36,	Thr-56 to Met-61.										
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Thr-41 to Lys-46,	Inr-55 to Giy-59, Ala-77 to Asp-84.	Ser-1 to Leu-14,	GIU-39 to 1 III-4/.			c													٠		٠						
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·	Ser-29 to Ile-39, Gly-42 to Trp-48, Lys-82 to Val-92.
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L0769: 1, L0766: 1, L0775: 1, L0809: 1, H0698: 1, H0690: 1, S0390: 1, S0028: 1, L0742: 1, L0748: 1, L0747: 1, L0779: 1, L0752: 1, L0755: 1, L0759: 1, S0308: 1, H0542: 1, H0543: 1 and				•	L0665: 3, H0318: 2,	L0659: 2, S0330: 2,	L0439: 2, L0599: 2,	H0583: 1, H0058: 1,	L0387: 1, L0655: 1,	L0666: 1, L0779: 1,	L0777: 1, L0758: 1 and	L0608: 1.		12, AR055:	AR053: 8, AR033: 6,	6, AR061:	ARU60: 5, ARU96: 5,
	Gly-1 to Pro-6, Lys-58 to Asn-71.	Pro-15 to Thr-22, Lys-28 to Arg-35.				-		,			-		Asn-30 to Ile-35.	Gly-1 to Pro-38,	Leu-45 to Gly-64.		
	3232	3233	3234	3235	3236	-							3237	3238			
	3 - 323	207 - 371	2 - 199	3 - 245	267 - 446						-		94 - 261	1 - 297	-		
	1057	1058	1059	1060	1061			·					1062	1063			
	HAZBJ69R	HBAGS73R	HBBBE13R	HBCPI58RA	HBJAC26R								HBJFS85R	HBJHY72 HBJHY72RP	00B		
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AR104: 1, AR039: 0	L0794: 5, L0766: 3,	.0759: 3, S0212: 2,	H0318: 2, L0803: 2,	.0804: 2, L0378: 2,	.0665: 2, L0438: 2,	.0439: 2, L0749: 2,	.0591: 2, L0599: 2,	.0362: 2, H0686: 1,	S0342: 1, S0134: 1,	H0656: 1, H0669: 1,	S0358: 1, H0370: 1,	H0069: 1, S0346: 1,	H0251: 1, H0050: 1,	H0373: 1, H0266: 1,	S0022: 1, L0483: 1,	53: 1, H0163: 1,	H0090: 1, H0116: 1,	10509: 1, S0426: 1,	H0529: 1, L0769: 1,		,0648: 1, L0768: 1,	0381: 1, L0375: 1,	3: 1, L0659: 1,	2: 1, L0809: 1,	.0793: 1, H0691: 1,	H0435: 1, H0659: 1,	H0648: 1, S0152: 1,	\$0390: 1, \$0027: 1,	S0028: 1, L0777: 1,
ARI	<u> </u>	5/07	H03	0807	9907	L043	5907	) TO36	S034	H06	2035	)OH	H02	H03.	8002	H0553: 1	500H	)50H	H052	T0638: 1	F007	F038	T0653:	L0782: 1	[L079	H043	790H	<u>\$039</u>	2002
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L0731: 1, S0260: 1, L0596: 1, S0192: 1 and	50424: 1.	:	S0280: 1 and S0038: 1.			,										H0651: 9, L0601: 5,	H0559: 4, H0494: 4,	L0646: 3, H0484: 2,	H0255: 2, S0358: 2,	H0550: 2, H0309: 2,	H0014: 2, H0188: 2,	H0617: 2, H0646: 2,	L0769: 2, L0644: 2,	L0806: 2, H0689: 2,	L0750: 2, L0603: 2,	H0624: 1, H0171: 1,	H0657: 1, H0663: 1,
	Glu-8 to Asn-13.	Arg-16 to Thr-29.	Lys-23 to Lys-32,	Ser-72 to Leu-80,	Ser-90 to Gly-95,	Leu-98 to His-103,	Ser-106 to Gly-113,	Ile-121 to Phe-128.	Leu-2 to Val-10.	His-2 to Glu-28,	Ala-37 to Gly-45,	His-54 to Pro-62,	Glu-69 to Thr-77.	Arg-1 to Arg-6,	Phe-27 to Arg-32.						•						-
	3239	,	3240						3241	3242				3243		3244											
	145 - 231		59 - 547						1 - 126	145 - 543				171 - 359		2 - 322											
	1064	,   	1065				_		1066	1067				1068		1069											
	HBJMN13R		HBXCG52R				-		HBXFO08R	HCACS53 HCACS53RP	00A		-	HCHAJ85R		HCHMM71 HCHMM71R											i
	HBJMN13		HBXCG52						HBXFO08	HCACS53			•	HCHAJ85		HCHMM71											

S0360: 1, H0574: 1, H0257: 1, H0013: 1, H0253: 1, H0098: 1, H0253: 1, H0327: 1, H0545: 1, H0024: 1, H0181: 1, H0359: 1, S0150: 1, L0369: 1, L0771: 1, L0662: 1, L0766: 1, L0803: 1, L0661: 1, S0428: 1, H0670: 1, S0328: 1, L0748: 1, L0439: 1, L0758: 1 and H0543: 1.			L0439: 8, H0052: 7, L0748: 7, S0440: 5, L0758: 5, H0046: 4, H0038: 4, L0769: 4, S0442: 3, H0013: 3, H0253: 3; T0010: 3, L0774: 3, L0776: 3, H0144: 3, H0521: 3, S0404: 3, L0752: 3, L0731: 3, H0656: 2, S0358: 2, S0360: 2, S0222: 2, H0618: 2, H0620: 2, L0351: 2,
	Ser-1 to Thr-8, Glu-17 to Ala-32, Arg-39 to Trp-47.		Gln-17 to Pro-27.
	3245	3246	3247
	53 - 319	3 - 134	234 - 443
	1070	1071	1072
	HCHMW20 HCHMW20R	HCLBH21R	HCNDT49R
	HCHMW20	HCLBH21	HCNDT49

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S0422: 2, L0764: 2,	.0771: 2, L0783: 2,	.0793: 2, H0658: 2,	10666: 2, L0751: 2,	754: 2, L0745: 2,	J0747: 2, L0750: 2,	524: 1, H0265: 1,	H0556: 1, H0686: 1,	34: 1, S0212: 1,	S0001: 1, H0254: 1,	H0661: 1, S0354: 1,	S0444: 1, S0408: 1,	S0300: 1, S0278: 1,	H0369: 1, H0370: 1,	H0333: 1, H0574: 1,	H0486: 1, H0036: 1,	H0263: 1, H0597: 1,	H0545: 1, H0572: 1,	H0024: 1, S0388: 1,	S0051: 1, S0250: 1,	H0252: 1, H0428: 1,	339: 1, H0644: 1,	.0055: 1, H0674: 1,	H0135: 1, H0087: 1,	T0067: 1, H0488: 1,	529: 1, L0763: 1,	770: 1, L.0761: 1,	L0374: 1, L0662: 1,	.0768: 1, L.0766: 1,	.0803: 1, L0775: 1,
S04	<u> </u>	<u>101</u>	OH	101	<u> </u>	OH	)OH	S01	200	OH	80 <del>8</del>	20S	)OH	HO	ĎΗ	)HO	HO	)OH	200	HO	HO	<u> </u>	HO	TOC	HO	101		LOT	108 108
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L0805: 1, L0653: 1, L0526: 1, L5622: 1, L0666: 1, L0664: 1, L0665: 1, S0053: 1, H0547: 1, H0670: 1, H06435: 1, H0670: 1, H0660: 1, H0648: 1, H0652: 1, S0152: 1, H0696: 1, S0152: 1, L0742: 1, L0749: 1, L0742: 1, L0749: 1, L0759: 1, S0436: 1, S0011: 1, S0192: 1, H0542: 1, H0643: 1, S0011: 1, S0192: 1,		L0747: 15, L0750: 7, L0731: 7, L0588: 6, L0748: 5, L0439: 5, L0759: 5, H0150: 3, S0144: 3, L0666: 3, L0665: 3, L0752: 3, L0758: 3, L0591: 3, S6024: 2, T0049: 2, S0356: 2, H0674: 2, H0413: 2, S0142: 2,
	Arg-1 to Leu-10, Ser-32 to Ala-45, Ala-58 to Gly-68.	Tyr-3 to Gly-10, Glu-19 to Trp-25.
	3248	3249
	25 - 273	32 - 754
	1073	1074
	HCOMA72 HCOMA72R	HCOMB04 HCOMB04R
	HCOMA72	HCOMB04

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L0770: 2, L0769: 2,	L0774: 2, L0775: 2,	L0657: 2, H0672: 2,	50328: 2, 50378: 2,	L0605: 2, L0593: 2,	H0624: 1, T0002: 1,	H0638: 1, S0418: 1,	L0005: 1, S0376: 1,	S0444: 1, S0360: 1,	H0675: 1, S0045: 1,	H0393: 1, S0222: 1,	H0441: 1, H0453: 1,	H0333: 1, H0574: 1,	H0486: 1, H0101: 1,	L0021: 1, H0098: 1,	T0010: 1, H0083: 1,	H0266: 1, H0188: 1,	S0003: 1, H0328: 1,	H0615: 1, H0428: 1,	T0006: 1, H0166: 1,	H0598: 1, H0090: 1,	H0063: 1, T0069: 1,	H0509: 1, H0641: 1,	S0002: 1, L0369: 1,	L0372: 1, L0662: 1,	L0794: 1, L0766: 1,	L0803: 1, L0651: 1,	L0655: 1, L0379: 1,	L0656: 1, L0659: 1,	L0782: 1, L0783: 1,
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L0788: 1, L0664: 1, L0565: 1, L0438: 1, H0547: 1, S0126: 1, H0435: 1, H0659: 1, H0522: 1, H0696: 1, L0740: 1, L0751: 1, L0745: 1, L0755: 1, L0757: 1, H0445: 1, H0343: 1, H0595: 1, L0596: 1, L0581: 1, L0599: 1 and S0192: 1.			L0740: 6, L0666: 2, H0547: 2, L0751: 2, L0777: 2, H0483: 1, S0358: 1, S0444: 1, H0038: 1, L0770: 1, L0768: 1, L0774: 1, L0805: 1, L0658: 1, L0789: 1, H0670: 1, H0659: 1, H0670: 1, L0747: 1, L0779: 1 and L0758: 1. L0439: 7, L0748: 5, H0255: 4, H0253: 4, H0012: 3, H0620: 3, H0617: 3, L0783: 3.
	Pro-1 to Pro-9, Ile-43 to Lys-48.		Asn-10 to Val-16.  Lys-11 to Thr-16,  Arg-18 to Glu-24,  Arg-31 to Leu-38,  Phe-51 to Glu-56.
·	3250	3251	3252
·	3 - 275	1-315	350 - 622
	1075	1076	1077
	HCOMD38 HCOMD38R	HCOMD61R	HCOMF52 HCOMF52R
	HCOMD38	HCOMD61	

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L0438: 3, H0618: 2,	H0046: 2, L0769: 2,	L0766: 2, L0532: 2,	.0663: 2, H0521: 2,	.0750: 2, L0777: 2,	.0592: 2, H0543: 2,	H0650: 1, S0212: 1,	S0001: 1, H0483: 1,	H0254: 1, H0638: 1,	S0418: 1, S0358: 1,	H0580: 1, S0468: 1,	H0549: 1, H0559: 1,	H0013: 1, S0280: 1,	H0318: 1, H0052: 1,	H0024: 1, H0252: 1,	H0424: 1, H0553: 1,	10644: 1, H0124: 1,	H0376: 1, H0135: 1,	H0040: 1, H0087: 1,	H0488: 1, T0042: 1,	H0494: 1, H0509: 1,	.0768: 1, L0388: 1,	.0657: 1, L0659: 1,	.0789: 1, L0352: 1,	S0126: 1, H0689: 1,	H0658: 1, H0670: 1,	H0436: 1, H0478: 1,	H0626: 1, L0742: 1,	,0780: 1, L0731: 1,	H0445: 1, L0608: 1,
Glu-59 to Glu-67, L	4,	Leu-119 to Gln-124.	<u>.</u> .			<u>j-L-i</u>	<u>s</u>	<u>;+4</u>	S	<u> </u>	<u>i-L-i</u>	<u> </u>	<u> </u>	<u>;</u>	H	<u> </u>		<u> </u>	<u>111</u>	<u>-11</u>			<u>,</u>	S	<u>, i.i.</u>	<u>. i i i</u>	<u>idda</u>		
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L0366: 1 and S0276: 1.	·	-									H0670: 14, S0360: 9,	L0657: 5, L0659: 4,	L0809: 4, H0696: 4,	L0777: 4, S0356: 3,	L0764: 3, L0662: 3,	S0374: 3, H0637: 2,	H0411: 2, H0486: 2,	L0762: 2, L0763: 2,	L0521: 2, L0768: 2,	L0774: 2, L0805: 2,	L0666: 2, L0665: 2,	H0659: 2, H0672: 2,	H0710: 2, S0406: 2,	L0744: 2, L0748: 2,	H0686: 1, S0040: 1,	H0713: 1, H0657: 1,	H0662: 1, S0444: 1,	S0408: 1, S0410: 1,
	Lys-1 to Arg-8, Asp-20 to Thr-26,	Gly-35 to Glu-48,	Leu-66 to Arg-72,	Phe-83 to Tyr-88.	Trp-13 to Asp-19,	Cys-29 to Gln-34,	Ala-41 to Arg-52,	Gly-54 to Gln-59,	Arg-69 to Tyr-83.		Pro-13 to Pro-22.																	
	3254				3255					3256	3257																	
	46 - 357				29 - 373					233 - 436	21 - 167																	
	1079				1080					1081	1082										-							
	HCOMG28 HCOMG28R				HCOMG40 HCOMG40R					HCOMG82R	HCOMH70 HCOMH70R						-						•		٠			
	HCOMG28				HCOMG40					HCOMG82	HCOMH70																	

H0602: 1, H0643: 1, T0048: 1, H0263: 1, H0596: 1, H0014: 1, H0015: 1, H0594: 1, H0271: 1, H0687: 1, S0003: 1, S0214: 1, H0169: 1, H0674: 1, L0640: 1, L0646: 1, L0641: 1, L0773: 1, L0784: 1, L0806: 1, L0776: 1, L0655: 1, L0776: 1, L0655: 1, H0547: 1, H0648: 1, S0328: 1, S0330: 1, H0555: 1, H0627: 1, S03290: 1, S0028: 1, L0731: 1, S0434: 1, L0731: 1, L0362: 1 and H0667: 1.				L0743: 19, L0731: 13,	L0666: 9, L0751: 9,
			Lys-1 to Gly-10, Pro-13 to Asn-23.		
	3258	3259	3260	3261	•
	42 - 497	244 - 618	255 - 605	138 - 338	
			1085	1086	
	HCOMI30R	HCOMI37 HCOMI37R	HCOML11R	HCOMM12 HCOMM12R	
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014	0617	3662:	0616:	0483:	0517:	0754:	0051:	)663:	0747:	0757:	0049	0622:	0253:	0163:	0188	0100	3372:	0776:	3382:	0672:	3742:	3260:	0596:	3599:	0637:	132:	3778:	0431:	0599
8. H	: 7, H	7, L	6, H	: 6, L	: 5, L	5, L	: 5, 5	4, L	:4, L	4, L	: 3, T	: 3, L	3, H	: 3, L	: 3, H	:3, H	3, L	3, L	3, L	3, H	3,17	3, S(	:3,L	3, L	2, H	2, S(	2, S(	2, H	: 2, H
.0664: 8, H0144: 8	Н0333: 7, Н0617	.0769: 7, L0662: '	S0022: 6, H0616: 6,	H0087: 6, L0483::5,	H0181: 5, L0517: 5,	.0519: 5, L0754: £	H0677: 5, S0051: 4	S0344: 4, L0663: 4	H0658: 4, L0747: 4,	.0750: 4, L0757: 4,	H0295: 3, T0049:	H0255: 3, L0622:	10039: 3, H0253:	H0545: 3, L0163:	H0594: 3, H0188:	H0673: 3, H0100: 3,	S0142: 3, L0372: 3	.0775: 3, L0776: 3,	.0657: 3, L0382: 3,	0665	S0027: 3, L0742: 3,	.0752: 3, S0260: 3,	H0445: 3, L0596: 3,	.0588: 3, L.0599: 3,	S0420: 2, H0637: 2,	0045	S0300: 2, S0278: 2,	S0222: 2, H0431: 2,	H0392: 2, H0599:
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H0575; 2, H0052; 2,	10309: 2, H0085: 2,	10597: 2, H0544: 2,	10428: 2, H0124: 2,	S0036: 2, H0163: 2,	H0038: 2, H0413: 2,	10529: 2, L0369: 2,	.0763: 2, L0770: 2,	,0638: 2, L0764: 2,	0771: 2, L0803: 2,	.0804: 2, L0375: 2,	,0655: 2, L0384: 2,	0809: 2, L0532: 2,	S0374: 2, S0126: 2,	H0670: 2, H0651: 2,	H0521: 2, S0028: 2,	.0740: 2, L0485: 2,	.0362: 2, L.0601: 2,	S0192: 2, S0424: 2,	.0600: 2, H0556: 1,	Г0002: 1, H0686: 1,	S0040: 1, S0342: 1,	H0294: 1, S0114: 1,	S0134: 1, H0650: 1,	H0657: 1, L0785: 1,	H0341: 1, S0180: 1,	S0212: 1, H0484: 1,	H0483: 1, H0254: 1,	H0671: 1, H0662: 1,	H0402: 1, H0638: 1,
OH	HO	)HO	OH)	<u>S</u> 0	<u>H0</u>	)HO	<u>3</u>	<u>3</u>	<u>3</u>	<u>2</u>	<u>1</u>	<u>3</u>	20	OH HO	OH	01	<u> </u>	0S	<u>3</u>	TO	<u>S</u>	HO	SO SO	)HO	OH HO	200	OH)	)H	HO
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1, S0356: 1	T0007: 1, S0358: 1,	1, H0208: 1	1, H0438:	1, S0005: 1	L0623: 1, L0477: 1	1, S0280: 1	1, H0590:	H0004: 1, H0618: 1	S0010: 1, H0318:	S0049: 1, H0251: 1	H0596: 1, T0110:	1, H0009:	1, L0471:	H0006: 1, H0014:	1, S0388: 1	H0510: 1, S0334: 1	H0687: 1, T0023:	T0006: 1, H0424:	H0182: 1, H0606:	1, H0165:	H0166: 1, S0366: 1	H0135: 1, H0090:	70067: 1, H0488:	H0412: 1, T0069:	1, L0564: 1	1, S0015: 1	H0561: 1, L0762:	.0640: 1, L0637: 1	.0761: 1, L0667: 1
S0418:	T0007:	S0007:	H0441:	H0587:	L0623:	T0114:	L0021:	H0004:	S0010:	S0049:	H0596:	H0327:	H0123:	H0006:	H0051:	H0510:	H0687:	T0006:	H0182:	H0383:	H0166:	H0135:	T0067:	H0412:	S0112:	H0494:	H0561:	L0640:	L0761:
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72: 1, L0373: 1,	.0646: 1, L0643: 1,	.0374: 1, L0765: 1,	.0773: 1, L0648: 1,	.0521: 1, L0768: 1,	.0364: 1, L0533: 1,	.0650: 1, L0774: 1,	.0376: 1, L0806: 1,	.0652: 1, L0653: 1,	L0606: 1, L0629: 1,	.0659: 1, L0636: 1,	.0542: 1, L0526: 1,	.0518: 1, L0782: 1,	.0783: 1, H0689: 1,	H0690: 1, H0682: 1,	H0683: 1, H0659: 1,	H0660: 1, S0328: 1,	S0330: 1, S0380: 1,	H0522: 1, S0004: 1,	H0555: 1, L0611: 1,	S3014: 1, S0206: 1,	.0755: 1, L0758: 1,	H0444: 1, L0587: 1,	.0589: 1, L0605: 1,	.0591: 1, L0608: 1,	.0361: 1, L0366: 1,	H0665: 1, S0242: 1,	S0194: 1, H0543: 1,	H0423: 1, S0460: 1,	S0456: 1 and H0506: 1.
L0772:	907 1706	L03	L07	T05	<u> </u>   103	907	L03	)  T06	)       	907	L05		L07	90H	90H	90H	S03.	H05	HOS	230	101	H04	105	105	L03	90H	S019	H04	S04.
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									L0754: 3, H0624: 2,	S0354: 2, H0124: 2,	L0766: 2, L0751: 2,	L0759: 2, S0116: 1,	H0661: 1, H0098: 1,	H0597: 1, L0157: 1,	S0250: 1, S0003: 1,	H0622: 1, H0553: 1,	H0509: 1, L0521: 1,	L0662: 1, L0768: 1,	L0803: 1, L0657: 1,	L0659: 1, L0666: 1,	L0663: 1, H0144: 1,	S0126: 1, H0670: 1,	L0779: 1, L0777: 1,	L0755: 1, L0589: 1 and	L0362: 1.		
Pro-10 to Leu-20, His-27 to Lys-40.	Phe-7 to Asp-29,	Glu-31 to Lys-38,	Thr-46 to Thr-52,	Glu-65 to Arg-72.																		-					,
3262	3263				3264		3265	3266	3267																	3268	3269
298 - 119	1-336			!	3 - 443		166 - 492	3 - 161	76 - 267				•	,												8 - 718	33 - 398
1087	1088				1089		1090	1001	1092																	1093	1094
HCOMMSS HCOMMSSR	HCOMOS8 HCOMOS8R				HCOMW52 HCOMW52R	P00B	HCOMX77R	HCONC18 HCONC18RP	HCONH28R																	HCONK56 HCONK56R	HCONK75 HCONK75R
HCOMM55	HCOMO58				HCOMW52		HCOMX77	HCONC18	HCONH28																	HCONK56	HCONK75

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	L0748: 50, L0754: 42,	L0731: 31, H0644: 30,	L0747: 29, H0551: 22,	S0418: 21, L0659: 17,	H0619: 15, L0663: 14,	L0666: 13, S0360: 10,	H0622: 10, H0031: 10,	H0553: 10, L0662: 10,	S0126: 10, L0757: 10,	L0603: 10, S0420: 8,	H0486: 8, H0013: 8,	H0050: 8, H0623: 8,	L0717: 7, H0144: 7,	L0770: 6, L0750: 6,	H0427: 5, H0024: 5,	H0328: 5, H0030: 5,	L0773: 5, L0665: 5,	L0749: 5, H0713: 4,	T0039: 4, S0280: 4,	H0012: 4, H0038: 4,	L0794: 4, L0774: 4,	L0775: 4, L0805: 4,	H0624: 3, H0170: 3,	H0171: 3, S0356: 3,	H0329: 3, S0046: 3,	H0331: 3, H0575: 3,	L0471: 3, H0620: 3,
His-23 to Lys-34, Arg-49 to Leu-57,	Pro-39 to Ser-66.				•																						
3270	3271																-	•									
3 - 221	255 - 455		•																							,	
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HCONLA9 HCONLA9R	HCONL59R																					-					
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S0250: 3, H0032: 3.	H0591: 3, L0598: 3,	L0803: 3, L0653: 3,	L0657: 3, H0670: 3,	S0406: 3, H0555: 3,	L0780: 3, L0605: 3,	H0667: 3, H0717: 2,	T0049: 2, S0212: 2,	H0661: 2, S0376: 2,	S0007: 2, H0208: 2,	S0476: 2, H0645: 2,	H0411: 2, H0437: 2,	H0550: 2, H0586: 2,	H0333: 2, H0599: 2,	H0042: 2, H0545: 2,	H0123: 2, H0105: 2,	H0014: 2, H0051: 2,	H0375: 2, L0142: 2,	H0598: 2, H0135: 2,	H0040: 2, S0372: 2,	L0520: 2, L0640: 2,	L0769: 2, L5566: 2,	L0772: 2, L0646: 2,	L0771: 2, L0363: 2,	L0768: 2, L0375: 2,	L0654: 2, L0776: 2,	L0809: 2, L0438: 2,	H0547: 2, H0519: 2,	L0602: 2, L0743: 2,	L0744: 2, L0439: 2,
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L075	1.058	F036	H029	8029	H035	8022	H039	H058	H048	T006	1.002	H003	H025	H025	H054	H008	1000 1000	H001	H027	2000	H011	8036	H006	800H	H041	H010	H056	T036	L080
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	Leu-2 to Leu-9.
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	389 - 631
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H0486: 8, H0013: 8,	H0050: 8, H0623: 8,	L0717: 7, H0144: 7,	L0770: 6, L0750: 6,	H0427: 5, H0024: 5,	H0328: 5, H0030: 5,	L0773: 5, L0665: 5,	L0749: 5, H0713: 4,	T0039: 4, S0280: 4,	H0012: 4, H0038: 4,	L0794: 4, L0774: 4,	L0775: 4, L0805: 4,	H0624: 3, H0170: 3,	H0171: 3, S0356: 3,	H0329: 3, S0046: 3,	H0331: 3, H0575: 3,	L0471: 3, H0620: 3,	S0250: 3, H0032: 3,	H0591: 3, L0598: 3,	L0803: 3, L0653: 3,	L0657: 3, H0670: 3,	S0406: 3, H0555: 3,	L0780: 3, L0605: 3,	H0667: 3, H0717: 2,	T0049: 2, S0212: 2,	H0661: 2, S0376: 2,	S0007: 2, H0208: 2,	S0476: 2, H0645: 2,	H0411: 2, H0437: 2,	H0550: 2, H0586: 2,
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2, H0	2, H05	2, H0]	2, H00	2, L01	2, H0]	2, S03	.0520: 2, L0640: 2,	.0769: 2, L5566: 2,	2, L06	.0771: 2, L0363: 2,	0768: 2, L0375:	0654: 2, L0776: 2,	0809: 2, L0438: 2,	2, H0	.0602: 2, L0743: 2,	0744: 2, L0439:	0758: 2, L0759: 2,	0588: 2, L0599: 2,	.0361: 2, H0716: 1	1, S04	1, S01	1, HO	1, H03	1, H0	1, HO	1, TOC	1, H02	.0021: 1, H0003:	
H0333: 2, H0599: 2,	H0042: 2, H0545: 2,	H0123: 2, H0105:	H0014: 2, H0051:	H0375: 2, L0142: 2,	H0598: 2, H0135:	H0040: 2, S0372:	.0520:	.0769:	.0772:	.0771:	.0768:	.0654:	.0809:	H0547: 2, H0519: 2,	.0602:	.0744:	.0758:	.0588:	.0361:	H0294: 1, S0430:	S0298: 1, S0132:	H0351: 1, H0369: 1	S0222: 1, H0370:	H0392: 1, H0409:	H0587: 1, H0574:	H0485: 1,	F0060: 1,	.0021:	H0036: 1,
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H0253: 1, H0505: 1,	H0251: 1, H0544: 1,	H0546: 1, H0046: 1,	H0081: 1, H0019: 1,	T0003: 1, H0057: 1,	H0015: 1, H0373: 1,	H0275: 1, H0594: 1,	S0003: 1, H0039: 1,	H0111: 1, H0674: 1,	S0364: 1, S0036: 1,	H0090: 1, H0063: 1,	H0087: 1, H0268: 1,	H0412: 1, H0059: 1,	H0100: 1, L0564: 1,	H0561: 1, S0210: 1,	L0369: 1, L3904: 1,	L0800: 1, L0641: 1,	L0764: 1, L5564: 1,	L0804: 1, L0378: 1,	L0806: 1, L0807: 1,	L0526: 1, L0787: 1,	L0788: 1, L0791: 1,	L0793: 1, S0374: 1,	H0691: 1, T0068: 1,	H0690: 1, H0682: 1,	H0684: 1, H0658: 1,	H0672: 1, H0651: 1,	H0518: 1, H0696: 1,	S0146: 1, S0037: 1,	S3014: 1, S0027: 1,
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S0028: 1, S0206: 1, S0032: 1, H0445: 1, L0589: 1, L0590: 1, L0485: 1, L0604: 1, H0668: 1, H0653: 1, S0242: 1, S0194: 1 and H0008: 1.		-	L0803: 15, L0766: 7,	L0748: 6, L0809: 5,	L0749: 5, L0804: 4,	L0776: 4, L0754: 4,	L0752: 4, L0805: 3,	L0755: 3, S0438: 2,	L0800: 2, L0662: 2,	L0740: 2, L0751: 2,	L0747: 2, L0750: 2,	L0757: 2, L0615: 1,	H0556: 1, S0278: 1,	T0039: 1, H0318: 1,	H0597: 1, H0009: 1,	H0510: 1, H0553: 1,	H0063: 1, H0509: 1,	H0647: 1, S0144: 1,	L0763: 1, L0770: 1,	L0764: 1, L0768: 1,	L0794: 1, L0775: 1,	L0653: 1, L0661: 1,	L0518: 1, L0790: 1,
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	3273	3274	3275																				
	205 - 384	1 - 135	218 - 610																				
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H0519: 1, H0659: 1, H0670: 1, S0328: 1,	H0696: 1, L0439: 1, L0581: 1, S0242: 1 and	S0276: 1.																								
		·	Val-1 to Ile-10,	Met-32 to Asn-42.	Gly-7 to Gly-21,	Pro-145 to Arg-152,	Ala-178 to Lys-183.		Gly-18 to Gln-39,	Leu-49 to His-60,	Glu-67 to Asp-92.		Thr-76 to Arg-92,	Pro-113 to Ala-118.	Pro-15 to Tyr-21.	Asn-1 to Pro-10.						Ala-15 to Gln-25,	Gly-42 to Asp-51,	Gln-82 to Lys-87,	Lys-113 to Lys-118.	
			3276		3277			3278	3279			3280	3281		3282	3283	3284	3285	3286	3287	3288	3289				3290
			3 - 413		1 - 669			312 - 488	3 - 380			3 - 575	1 - 429		85 - 234	2 - 151	44 - 457	101 - 352	2 - 334	3 - 482	1 - 426	1 - 354				209 - 625
			1101		1102			1103	1104			1105	1106		1107	1108	1109	1110	1111	1112	1113	1114				1115
			HCONP44R		HCONQ67R			HCONQ71R	HCONR31R	•		HCONU03R	HCONW62 HCONW62R	•	HCONW74 HCONW74R	HCONW90 HCONW90R	HCONW95 HCONW95R	HCOOB60 HCOOB60R	HCOOG32R	HCOOG37 HCOOG37R	<b>НСООН93 НСООН93 К</b>	HCOOI71R				HCOOI79R
			HCONP44		HCONO67		,	HCONQ71				HCONU03	HCONW62		HCONW74	HCONW90	HCONW95	HCOOB60	HC00G32	HC00G37	НСООН93	HCOOI71				HCOOI79

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Lys-71 to Glu-76, Ala-95 to Asp-100, Asp-113 to Ser-134.	Leu-33 to Lys-39.			·						
3291	3292	3293	3294	3295						
2 - 694	2 - 661	2 - 166	2 - 229	2 - 439						
1116	H17	1118	1119	1120						
HCOOM18 HCOOM18R	<b>НСООМ73</b> R	HCOOQ46R	HCOOS39R	HCOOT43R						
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S028	H05	, H06	H03]	H02	, T01	, ноо	, L04	, НОО	, \$03	, S03	, T00	, H04,	, H06	, H01	, \$0366:	, H00	H04	, T000	1.056	, S00	,107	. LO63	)T066	L037	1064	L076	, L0648: 1	1076	L053
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T01	9	HO	200	<u>S</u> 00	H05	H0:	<u>H</u>	<u>H</u>	HO	HO	HOH	<u>10</u>	H0]	H03	H0	<u>H</u>	<u>1</u> 00	H07	S01	70 H	H05	<u>8</u>	5	<u>10</u>	<u>8</u>	<u> </u>	100	105	2
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																•						-	Arg-13 to Val-20.	•				
																							3296					
							,		•														147 - 488					
							•																1121					
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L0747: 5, H0542: 5, H0423: 5, H0624: 4,	T0002: 4, H0486: 4,	H0031: 4, H0169: 4,	H0616: 4, L0770: 4, I 0776: 4 I 0666: 4	S0152: 4, L0754: 4,	H0657: 3, H0663: 3,	S0418: 3, S0358: 3,	S0360: 3, H0038: 3,	L0764: 3, L0648: 3,	L0775: 3, L0655: 3,	L0749: 3, L0750: 3,	L0755: 3, S0026: 3,	H0422: 3, H0170: 2,	H0171: 2, H0341: 2,	H0402: 2, H0638: 2,	S0045: 2, S0046: 2,	H0156: 2, S0182: 2,	H0318: 2, L0471: 2,	S0003: 2, H0168: 2,	H0674: 2, H0090: 2,	H0063: 2, H0412: 2,	H0413: 2, H0100: 2,	S0440: 2, L0769: 2,	L0372: 2, L0662: 2,	L0659: 2, H0547: 2,	H0659: 2, S0328: 2,	S0380: 2, H0521: 2,	L0756: 2, L0758: 2,
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	L075	T090;	L059	8019	S004	H058	S0110	H017	T000	S0408	H036	8022	H063	H025	H057	T0048: 1	H059	H059	H004	H008	Se028:	H029	H055	H0111: 1	H038	H059	H005	H0560: 1,	H050	H064
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S0210: 1, H0529: 1, L0520: 1, L0763: 1, L0637: 1, L0800: 1, L0765: 1, L0773: 1, L0364: 1, L0766: 1, L0806: 1, L0766: 1, L0657: 1, L0518: 1, L0657: 1, L0518: 1, L0663: 1, L0664: 1, H0682: 1, H0670: 1, H0666: 1, H0648: 1, H0672: 1, S0113: 1, H0696: 1, H0134: 1, L0696: 1, L0744: 1, L0751: 1, H0343: 1, L0751: 1, H0343: 1, L0751: 1, H0343: 1, L0751: 1, L0697: 1, S0242: 1, L0697: 1, S0242: 1, L0697: 1,				
		Ala-20 to Asp-25, Asp-38 to Ser-59,	Asn-103 to Giu-103, Pro-111 to Ser-119.	
	3297	3298		3299
	3 - 257	58 - 534		153 - 311
	1122	1123		1124
	HCOOU56R	HCOOW72 HCOOW72R		HCOOX01 HCOOX01R A
	HCOOU56	HCOOW72		HCOOX01

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L0751: 14, L0659: 11,	H0695: 10, L0666: 10,	L0757: 9, L0743: 8,	L0779: 8, H0581: 6,	L0769: 6, L0748: 6,	L0758: 6, H0556: 5,	H0402: 5, S0360: 5,	H0014: 5, H0271: 5,	L0761: 5, L0667: 5,	L0774: 5, L0653: 5,	S0406: 5, H0436: 5,	S0358: 4, S0132: 4,	L0763: 4, L0776: 4,	L0809: 4, L0664: 4,	S0126: 4, L0731: 4,	S0280: 3, H0150: 3,	H0687: 3, L0662: 3,	L0775: 3, L0375: 3,	H0670: 3, L0749: 3,	S0434: 3, H0295: 2,	H0650: 2, S0408: 2,	H0580: 2, H0411: 2,	H0586: 2, H0559: 2,	H0545: 2, H0050: 2,	S0051: 2, H0083: 2,	H0416: 2, H0688: 2,	H0617: 2, H0063: 2,	H0551: 2, S0344: 2,	L0643: 2, L0764: 2,	L0766: 2, L0649: 2,
3300   His-15 to Gly-29.	•													-					-					•					•
3300																													
236 - 367																										,			
1125												• •																	
HCOOX07 HCOOX07R														-											•				
HCOOX07																						,	-						

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L0806: 2, L0657: 2,	L0647: 2, L0793: 2,	L0665: 2, S0428: 2,	S0332: 2, L0747: 2,	L0752: 2, H0624: 1,	H0171: 1, H0265: 1,	H0159: 1, H0713: 1,	S0218: 1, H0656: 1,	S0116: 1, H0483: 1,	H0663: 1, H0638: 1,	S0356: 1, S0444: 1,	H0339: 1, S0046: 1,	S0476: 1, S0278: 1,	S6022: 1, H0550: 1,	S0414: 1, L0622: 1,	H0486: 1, H0635: 1,	H0427: 1, H0156: 1,	H0599: 1, H0052: 1,	H0309: 1, H0597: 1,	H0546: 1, L0041: 1,	H0123: 1, H0510: 1,	H0188: 1, T0006: 1,	L0055: 1, H0673: 1,	H0674: 1, H0708: 1,	H0316: 1, H0634: 1,	H0087: 1, H0059: 1,	S0352: 1, S0448: 1,	S0306: 1, L0640: 1,	L0371: 1, L0770: 1,	L0638: 1, L5565: 1,
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L0646: 1, L0642: 1, L0645: 1, L0771: 1, L0773: 1, L0648: 1, L0794: 1, L0805: 1, L0652: 1, L0661: 1, L0493: 1, L0635: 1, L0384: 1, L0788: 1, L0663: 1, S0052: 1, S0216: 1, S0374: 1, H0668: 1, H0689: 1, H0668: 1, H0679: 1, H0666: 1, H0672: 1, S0330: 1, H0539: 1, H07710: 1, L074: 1, L0740: 1, L074: 1, L0740: 1, L0756: 1, L0777: 1, L0759: 1, S0031: 1, H0595: 1, L0777: 1, L0759: 1, L0777: 1, L0759: 1, L0777: 1, L0361: 1 and S0194: 1.			L0748: 4, L0747: 4, L0779: 4, H0620: 3, L0770: 3, L0774: 3, L0622: 2, S0280: 2,
	Leu-13 to Gly-21, Ser-27 to Ser-42.	Asn-67 to Arg-73, Thr-96 to Gly-102.	Ala-1 to Leu-7, Gly-14 to Arg-19, Tyr-34 to Asp-41.
	3301	3302	3303
	203 - 349	1 - 315	3 - 446
	1126	1127	1128
	HCOOX48 HCOOX48R	HCOOY43R	HCOPA60 HCOPA60RA
	HCOOX48	HC00Y43	HCOPA60

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H0271: 2, H0290: 2, L0769: 2, L0800: 2, L0775: 2, L0766: 2, L0775: 2, H0547: 2, S0126: 2, S0380: 2, L0752: 2, L0758: 2, L0596: 2, H0295: 1, H0559: 1, H0125: 1, H0659: 1, H0126: 1, H0628: 1, H0150: 1, H00428: 1, H06424: 1, H0043: 1, H06424: 1, H00413: 1, H06424: 1, L0768: 1, L0646: 1, L0768: 1, L0788: 1, L0809: 1, L0788: 1, L0809: 1, L0788: 1, H0660: 1, H0670: 1, H0660: 1, H0670: 1, H0660: 1, L0789: 1, L0750: 1, L0759: 1,	
	Asp-28 to Glu-34, Ala-38 to Ile-44, Ala-64 to Arg-77, Gly-82 to Ala-88.
	3304
	2 - 598
:	1129
	HCOPB03R
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		L0751: 16, L0601: 10, L0659: 4, H0670: 4,	L0665: 3, S0376: 2,	H0494: 2, L0758: 2,	L0596: 2, H0587: 1,	H0646: 1, L0372: 1,	L0646: 1, L0662: 1,	L0552: 1, L0376: 1,	L0806: 1, L0664: 1,	H0682: 1, H0435: 1, H0672: 1 and L0744: 1.							L0665: 3, H0682: 2,	H0435: 2, L0751: 2,	H0663: 1, L0021: 1,	H0647: 1, L0806: 1,	L0664: 1, H0683: 1,	H0670: 1 and H0660: 1.				
	Phe-1 to Gly-7.	Arg-37 to Gly-44, Asp-76 to Gly-87.	•							·				Thr-6 to Cys-16,	Tyr-40 to Lys-47,	Ser-61 to Gln-66.	Arg-1 to Ser-7,	Ser-25 to Phe-32,	Leu-39 to Ser-44,	Arg-58 to Gly-63,	Ser-140 to Thr-145.		Pro-7 to Phe-15,	Gly-26 to Arg-31,	Asp-35 to Glu-43.	Arg-4 to Lys-9,
3305	9088	3307						F			3308	3309	3310	3311			3312						3313			3314
3 - 89	26 - 541	2 - 400			·		-				243 - 398	2 - 328	1-90	140 - 361			143 - 601						1 - 267			3 - 620
1130	1131	1132									1133	1134	1135	1136			1137						1138			1139
HCOPC45R	HCOPD67R	HCOPE27R									<b>HCOPH51RA</b>	HCOPI09RA	HCOPM42R	HCOPO34R			HCOP036 HCOP036R						HCOPO88R			HCOPV41R
HCOPC45	HCOPD67	HCOPE27	-								HCOPH51	HCOPI09	HCOPM42	HCOPO34			HCOP036						HCOPO88			HCOPV41

	AR096: 11, AR061: 10, AR104: 5, AR060: 5, AR089: 5, AR055: 4 L0774: 3, S0358: 2, H0509: 2, L0748: 1, H0449: 1, T0048: 1, H0428: 1, H0617: 1, S0438: 1, L0761: 1, L0779: 1, L0803: 1, L0804: 1, L0375: 1, L0779: 1, L0382: 1, L0791: 1, S0328: 1, H0134: 1, L0743: 1, L0748: 1, L0747: 1, and 1 L0756: 1			
Asp-61 to Asn-67, Thr-69 to Lys-75, Leu-105 to Ala-112, Gly-126 to His-134, Gly-172 to Glu-179, Pro-186 to Asn-199.		His-39 to Asn-45, Cvs-68 to Cvs-75.	His-37 to Asp-42.	Lys-6 to Asp-11, Gly-22 to Phe-27,
	3315	3316	3317	3318
·	1 - 582	41 - 271	1 - 192	1 - 582
	1140	1141	1142	1143
	HCOPZ15R	HCOQA38R	HCOQA80 HCOQA80R	нсоов12 нсоов12к
	HCOPZ15	HCOQA38	HCOQA80	нсоов12

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	H0670: 2 and H0589: 1.		L0794: 7, L0803: 5,	L0809: 5, L0666: 5,	L0751: 5, L0759: 3,	H0674: 2, L0768: 2,	L0774: 2, L0663: 2,	L0779: 2, L0758: 2,	S0360: 1, H0455: 1,	H0618: 1, H0263: 1,	H0169: 1, H0616: 1,	H0059: 1, S0112: 1,	L0451: 1, L0770: 1,	L0639: 1, L0648: 1,	L0804: 1, L0776: 1,	•	L0790: 1, L0791: 1,	L0664: 1, L0665: 1,	H0670: 1, H0672: 1 and	L0608: 1.							
His-54 to Gly-63, Asp-73 to Lys-79.		Lys-1 to Gln-7.	Lys-1 to Asp-21,	Lys-61 to Leu-71.						_									,		Glu-66 to Arg-72,	Pro-148 to Ser-154.	Met-3 to Ser-16,	Cys-25 to Asp-35,	Glu-42 to Lys-52,	Ser-55 to Glu-63,	Glu-74 to Thr-79,
	3319	3320	3321						٠												3322		3323				
	1-66	281 - 466	3 - 248				•														1 - 570		106 - 639				
	1144	1145	1146																		1147		1148				
	нсоовзе нсоовзек	HCOQB58R	HCOQC71R						,												HCOQD29 HCOQD29R	<u> </u>	HCOQD38R				
	нсоов56	HCOQB58	HC0QC71	'																	HC0QD29	,	нсоор38		,		

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		S0358: 15, S0003: 13,	S0126: 11, L0754: 11,	S0410: 10, H0599: 9,	S0440: 9, H0529: 9,	L0748: 9, H0341: 8,	H0373: 8, H0591: 8,	L0588: 8, L0362: 8,	H0661: 7, S0007: 7,	L0471: 7, L0731: 7,	H0170: 6, T0042: 6,	S0374: 6, H0624: 5,	S0408: 5, H0013: 5,	H0046: 5, H0031: 5,	H0551: 5, H0144: 5,	L0752: 5, H0657: 4,	S0346: 4, S0214: 4,	H0039: 4, H0644: 4,	H0616: 4, H0413: 4,	H0494: 4, H0670: 4,	S0404: 4, S3014: 4,	L0740: 4, L0747: 4,	L0750: 4, L0753: 4,	L0758: 4, L0581: 4,	S0424: 4, S0040: 3,	H0663: 3, H0638: 3,	S0356: 3, S0360: 3,	S0222: 3, H0497: 3,
Ile-81 to Ser-102,	Ser-109 to Glu-118, Thr-138 to Glu-158.	Asp-39 to Ser-46.																										
		3324					_					_			•													
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H0575: 3, H0036: 3,	S0010: 3, H0052: 3,	S0438: 3, H0547: 3,	S0328: 3, S0380: 3,	S0206: 3, L0439: 3,	L0757: 3, L0595: 3,	H0423: 3, S0114: 2,	S0116: 2, S0212: 2,	H0484: 2, H0125: 2,	S0418: 2, S0376: 2,	S0444: 2, H0580: 2,	H0393: 2, H0369: 2,	H0370: 2, H0409: 2,	H0331: 2, H0574: 2,	H0486: 2, H0156: 2,	H0042: 2, H0318: 2,	H0581: 2, H0196: 2,	H0012: 2, L0163: 2,	H0083: 2, H0266: 2,	H0328: 2, H0615: 2,	L0194: 2, L0483: 2,	H0673: 2, H0169: 2,	S0364: 2, H0316: 2,	H0598: 2, S0036: 2,	H0090: 2, T0067: 2,	S0150: 2, S0344: 2,	S0422: 2, S0002: 2,	L0762: 2, L0774: 2,	L0666: 2, L0438: 2,	H0659: 2, H0539: 2,
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S0152: 2, H0521: 2,	H0696: 2, S3012: 2,	.0749: 2, L0756: 2,	S0434: 2, L0593: 2,	.0594: 2, L0366: 2,	H0653: 2, H0543: 2,	H0506: 2, H0171: 1,	HO685: 1, H0716: 1,	.0049: 1, S0134: 1,	S0218: 1, H0583: 1,	H0254: 1, H0255: 1,	H0671: 1, H0664: 1,	H0305: 1, L0005: 1,	S0468: 1, H0208: 1,	S0045: 1, S0046: 1,	S6026: 1, H0351: 1,	H0411: 1, H0261: 1,	H0431: 1, H0455: 1,	H0586: 1, H0632: 1,	F0039: 1, L0586: 1,	H0098: 1, H0120: 1,	T0048: 1, S0182: 1,	S0049: 1, H0230: 1,	HO596: 1, T0115: 1,	H0546: 1, H0545: 1,	H0009: 1, H0178: 1,	H0572: 1, H0123: 1,	H0024: 1, H0275: 1,	F0010: 1, H0239: 1,	Н0375: 1, Н0288: 1,
S		<u> </u>		:	<u>, 144</u>	<del>                                      </del>	<u>, 11</u>		<u>91</u>		<u> </u>	<b></b>	·		<u> </u>	<u> </u>	-11					01	<u> </u>						
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6: 1, H0070:	H0622: 1, T0023: 1	3: 1, T0006: 1,	3: 1, H0628	•	4: 1, H0068: 1	<u>_</u>	2: 1, H0100: 1	0: 1, H0625	1: 1, H0132: 1	0: 1, H0646	?: 1, H0142:	H0695: 1, L0369: 1	l: 1, L0373:	4: 1, L0773:	•	•		Ĺ	2: 1, L0664: 1		9: 1, H0593:	H0689: 1, H0683: 1,	4: 1, H0435:	D: 1, H0648	): 1, H0710:	H0522: 1, S0044: 1	S0146: 1, S0406:	H0555: 1, H0436: 1	H0447: 1, H0627: 1
H0286: 1	H062	S0368:	H0553:	H0032:	H0124: 1	H0038:	H0412:	H0560:	H0561: 1	H0130: 1,	S0142: 1	H069	L037	L0764: 1	L0648: 1	L0649: 1	L0776: 1	L0382:	L0792:	T0665:	H0519: 1	H068	7890H	)990H	S033C	H052	S0146	H055	H044
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H0444: 1, H0595: 1, L0608: 1, S0011: 1, H0668: 1, S0026: 1, H0136: 1, H0542: 1 and H0422: 1.	•				•		L0777: 9, L0766: 5,	L0748: 3, L0439: 3,	H0599; 2, L0774; 2,	L0747: 2, L0749: 2,	L0779: 2, L0731: 2,	H0305: 1, L0534: 1,	H0675: 1, S0046: 1,	H0004: 1, H0083: 1,	L0456: 1, T0042: 1,	S0344: 1, S0002: 1,	L0369: 1, L0770: 1,	L0773: 1, L0803: 1,	L0776: 1, L0809: 1,	L0791: 1, H0658: 1,	H0670: 1, S3012: 1,	L0756: 1, L0780: 1 and	L0759: 1.	
		Pro-26 to Asn-34,	Pro-50 to Pro-56,	Arg-64 to Val-69, Val-97 to Lys-103.	•		Arg-10 to Ser-16.		-															
	3325	3326			3327	3328	3329						_											3330
	1 - 357	3 - 395		-	208 - 522	2 - 583	11 - 187																	1 - 126
	1150	<u> </u>			1152	1153	1154																	1155
	HCOQF77R	HCOQG37R			HCOQG47R	<b>НСООН46 НСООН46R</b>	HCOQ114R																	HCOQI67R
	HCOQF77	HCOQG37			HCOQG47	нсоон46	HC00114		1															HC00167

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		L0752: 4, H0156: 2, L0803: 2, L0776: 2,	H0648: 2, L0439: 2,	H0431: 1, H0575: 1,	H0014: 1, T0023: 1,	H0598: 1, H0591: 1,	H0059: 1, L0772: 1,	L0372: 1, L0764: 1,	L0771: 1, L0773: 1,	L0804: 1, L0774: 1,	L0775: 1, L0375: 1,	L0805: 1, L0629: 1,	L0789: 1, L0665: 1,	L0438: 1, H0658: 1,	H0670: 1 and L0779: 1.									L0665: 4, L0743: 4,	H0486: 3, H0123: 3,	H0024: 3, L0528: 3,	L0748: 3, H0170: 2,
																			Arg-1 to Val-23.	Phe-94 to Glu-102,	Gln-133 to Thr-140.			Asn-29 to Gly-38,	Glu-50 to Gln-58.		
3331	3332	3333														3334	3335	3336	3337	3338	,	3339	3340	3341			
8 - 457	3 - 707	149 - 328														1 - 471	1 - 519	3 - 398	3 - 143	2-613		3 - 149	75 - 443	2 - 430			
1156	1157	1158														1159	1160	1161	1162	1163		1164	1165	1166			
HCOQ106R	HCOQJ07R	HCOQ136R									•					HCOQ179R	HCOQK86 HCOQK86R	HCOQL87   HCOQL87R	HCOQM87   HCOQM87R	<b>НСООО79 НСООО79R</b>		HCOQP32R	HCOQS11R	HCOQUIS HCOQUISR			
HCOOJ06	HCOQ107	нсоблзе														HCOQJ79	HCOQK86	HCOQL87	HCOQM87	<b>НСООО79</b>		<b>НСООР32</b>	HCOQS11	HCOQU15			

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H0050: 2, L0769: 2,	H0670: 2, L0747: 2,	L0750: 2, H0171: 1,	H0556: 1, H0583: 1,	H0657: 1, S0212: 1,	H0208: 1, H0619: 1,	S0278: 1, H0550: 1,	S0222: 1, H0438: 1,	H0613: 1, H0331: 1,	H0013: 1, H0635: 1,	H0002: 1, S0474: 1,	H0581: 1, H0009: 1,	L0157: 1, H0012: 1,	S0025: 1, H0239: 1,	H0375: 1, H0266: 1,	H0598: 1, H0135: 1,	H0163: 1, H0087: 1,	H0551: 1, H0494: 1,	S0210: 1, L0640: 1,	L0763: 1, L0646: 1,	L0387: 1, L0766: 1,	L0805; 1, L0776: 1,	L0655: 1, L0657: 1,	H0144: 1, H0520: 1,	H0547: 1, H0519: 1,	H0689: 1, H0658: 1,	H0576: 1, L0779: 1 and	L0759: 1.	L0805: 7, L0776: 4, L0748: 4, H0545: 3,
																				•							•	Ile-3 to Arg-8, Pro-17 to Ser-22,
																							•					3342
				•																								46 - 315
						•		•							,						,		-					1167
																												нсодия нсодиях
																												HC0QU92

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S0438: 3, H0641: 3,	L0588: 3, L0592: 3,	T0049: 2, H0549: 2,	H0431: 2, H0486: 2,	L0471: 2, H0169: 2,	S0372: 2, L0520: 2,	L0553: 2, L0768: 2,	L0649: 2, L0655: 2,	L0527: 2, L0783: 2,	L0532: 2, H0144: 2,	H0682: 2, H0670: 2,	S0378: 2, S0406: 2,	L0750: 2, S0026: 2,	H0542: 2, H0170: 1,	H0716: 1, S0212: 1,	H0638: 1, H0125: 1,	S0444: 1, H0580: 1,	H0393: 1, H0411: 1,	H0587: 1, L0586: 1,	T0114: 1, H0390: 1,	T0048: 1, H0318: 1,	H0596: 1, H0620: 1,	H0375: 1, T0006: 1,	H0606: 1, H0429: 1,	S0294: 1, H0386: 1,	L0770: 1, L0769: 1,	L3904: 1, L0374: 1,	L0773: 1, L0662: 1,	L0766: 1, L0803: 1,	L0774: 1, L0526: 1,
Ser-28 to Ser-34,	Thr-45 to Thr-56,	Ser-58 to Thr-63,	Tyr-74 to Thr-79.																					-					
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L0809: 1, L0793: 1,	L0664: 1, S0053: 1,	H0689: 1, H0684: 1,	H0659: 1, H0658: 1,	H0648: 1, S0330: 1,	H0521: 1, H0522: 1,	S0404: 1, L0749: 1,	L0780: 1, L0731: 1 and	H0543: 1.	H0250: 35, L0770: 9,	H0635: 6, L0483: 6,	L0766: 6, H0521: 6,	L0745: 6, S0003: 5,	H0623: 5, L0776: 5,	H0445: 5, S0408: 4,	H0411: 4, H0634: 4,	H0641: 4, L0598: 4,	H0650: 3, H0656: 3,	S0360: 3, H0574: 3,	H0486: 3, H0373: 3,	H0687: 3, H0591: 3,	H0040: 3, L0662: 3,	L0775: 3, L0665: 3,	S0216: 3, L0748: 3,	L0777: 3, S0134: 2,	H0663: 2, S0007: 2,	H0550: 2, H0013: 2,	H0581: 2, H0510: 2,	S0214: 2, H0615: 2,	H0674: 2, S0440: 2,
									Glu-1 to Lys-17,	Val-25 to Asn-30,	Phe-36 to Pro-42.									•									
					•				.3343																				
									3 - 239								-				<u>.</u>								
									1168																				
									HCOQV27 HCOQV27R																				
									HCOQV27																				

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10771-2 10653-2	H0658: 2, H0710: 2,	HOSTS: 2, HOT 18: 2,	10310. 2, 30200. 2,	LO/44: 2, LO/34: 2,	L0750: 2, L0779: 2,	L0731: 2, S0434: 2,	L0605: 2, L0485: 2,	L0362: 2, L0366: 2,	H0543: 2, H0423: 2,	H0170: 1, S0114: 1,	T0049: 1, S0218: 1,	L0002: 1, H0346: 1,	H0661: 1, H0638: 1,	S0418: 1, S0356: 1,	S0354: 1, S0358: 1,	S0376: 1, H0580: 1,	H0619: 1, H0645: 1,	L0717: 1, H0431: 1,	H0609: 1, H0587: 1,	H0632: 1, H0427: 1,	S0280: 1, L0021: 1,	H0599: 1, H0004: 1,	S0049: 1, H0309: 1,	H0596: 1, H0024: 1,	S0362: 1, H0179: 1,	H0271: 1, H0416: 1,	S0336: 1, S0316: 1,	H0328: 1, H0622: 1,	H0553: 1, H0032: 1,	H0124: 1, H0708: 1,
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S0366: 1, H0087: 1, T0067: 1, H0100: 1, S0294: 1, H0643: 1, H0649: 1, S0422: 1, L0744: 1, L0764: 1, L0774: 1, L0764: 1, L0774: 1, L0784: 1, L0774: 1, L0784: 1, L0792: 1, L0791: 1, L0792: 1, L0667: 1, L0669: 1, L0792: 1, L0664: 1, S0052: 1, S0428: 1, H0659: 1, H0670: 1, H0659: 1, H0670: 1, H0659: 1, H0670: 1, H0659: 1, L0740: 1, L0746: 1, L0748: 1, L0746: 1, L0758: 1, L0361: 1, S0242: 1, S0194: 1 and S0242: 1,	TU332. 1.		S0282: 1, L0021: 1, S0438: 1, L0775: 1, L0666: 1, L0663: 1,
	Trp-2 to Gly-7.		
	3344	3345	3346
	23 - 439	1 - 321	271 - 510
·	1169	1170	1171
	HCOOX38R	HCOQY33R	нсооу43 нсооу438
	HCOOX38	HCOQY33	нсооу43

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H0659: 1, H0670: 1 and L0758: 1.							L0770: 3, H0685: 1,	H0581: 1, H0553: 1,	S0150: 1 and H0670: 1.	L0754: 14, H0052: 13,	L0748: 13, H0556: 12,	L0591: 12, L0755: 11,	L0752: 10, L0731: 9,	L0601: 9, L0439: 8,	L0777: 8, L0596: 8,	H0046: 7, H0521: 7,	L0758: 7, H0599: 6,	H0622: 6, S0002: 6,	L0646: 6, L0593: 6,	H0265: 5, S0474: 5,	L0776: 5, L0666: 5,	L0741: 5, L0747: 5,	S0026: 5, H0543: 5,	H0619: 4, S0222: 4,	H0013: 4, H0590: 4,	H0544: 4, H0620: 4,	H0124: 4, H0038: 4,
	Lys-1 to Lys-13.		Pro-1 to Phe-15.	Val-1 to Gly-9.	•	Asn-1 to Gly-8.	Asn-7 to Pro-33,	Gly-40 to Gly-46,	Tyr-49 to Tyr-71.	Leu-35 to Tyr-40.	•														-		
	3347	3348	3349.	3350	3351	3352	3353			3354																	-
	387 - 473	1 - 507	2 - 136	14 - 292	1 - 303	3 - 611	105 - 317			3 - 419													-				
	1172	1173	1174	1175	1176	1177	1178			1179				-													
	HCOQZ02R	HCOQZ86 HCOQZ86R	HCORA95 HCORA95R	HCORB20 HCORB20R	HCORB43 HCORB43R	HCORB66R	HCORI18 HCORI18R			HCOR125R																•	
	HCOQZ02	HCOQZ86	HCORA95	HCORB20	HCORB43	HCORB66	HCORI18			HCOR125						-										7	

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S0386: 4, L0766: 4,	L0659: 4, H0547: 4,	H0670: 4, S0378: 4,	L0740: 4, L0749: 4,	L0750: 4, S0434: 4,	L0588: 4, L0589: 4,	S0040: 3, H0580: 3,	S6026: 3, H0486: 3,	S0010: 3, S0051: 3,	T0010: 3, H0083: 3,	H0266: 3, S0250: 3,	H0031: 3, H0591: 3,	S0142: 3, S0344: 3,	H0529: 3, L0770: 3,	L0769: 3, L0761: 3,	L0662: 3, L0774: 3,	L0653: 3, L0663: 3,	L0665: 3, L0438: 3,	H0435: 3, S0152: 3,	H0696: 3, S0342: 2,	T0049: 2, H0657: 2,	S0212: 2, H0638: 2,	S0418: 2, S0354: 2,	S0444: 2, S0360: 2,	S0046: 2, S0132: 2,	S0476: 2, L0717: 2,	S0278: 2, H0549: 2,	H0438: 2, H0587: 2,	H0333: 2, H0427: 2,	H0706: 2, H0545: 2,
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012: 2,	014: 2,	188: 2,	553: 2,	364: 2,	063: 2,	059: 2,	)42: 2,	561: 2,	641: 2,	764: 2,	775: 2,	517: 2,	564: 2,	519: 2,	631: 2,	14: 2,	757: 2,	599: 2,	362: 2,	653: 2,	667: 2,	423: 2,	002: 1,	686: 1,	255: 1,	663: 1,	458: 1,	42: 1,	208: 1,
H0050: 2, H0012: 2,	S0050: 2, H0014: 2,	S6028: 2, H0188: 2,	H0604: 2, H0553:	H0617: 2, S0364: 2,	S0366: 2, H0063: 2,	H0087: 2, H0059:	S0038: 2, T0042: 2,	H0560: 2, H0561: 2,	H0509: 2, H0641:	H0647: 2, L0764: 2,	L0771: 2, L0775: 2,	655: 2, LO	783: 2, LO	565: 2, HO	H0658: 2, H0631:	390: 2, S30	745: 2, LO	436: 2, LO	L0595: 2, L0362: 2,	S0011: 2, H0653: 2	H0665: 2, H0667:	H0542: 2, H0423:	H0422: 2, T0002:	H0222: 1, H0686:	H0717: 1, H0255:	H0661: 1, H0663:	H0662: 1, H0458:	S0420: 1, S0442: 1,	S0376: 1, H0208:
田	<u>80</u>	98	HO	HO	<u>S0.</u>	EH.	<u> </u>	<u>H</u>	H	요	2	<u> </u>	<u>10</u>	2	HOH	20.	<u>1.0</u>	<u>20</u>	<u>2</u>	<u>80</u>	呈	OH	OH OH	<u> </u>	<u>H</u>	<u>H</u>	<u> 유</u>	<u>S</u>	SO
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S0045: 1, H0645: 1,	S0300: 1, H0406: 1,	S0220: 1, H0431: 1,	H0455: 1, H0404: 1,	H0600: 1, H0586: 1,	2: 1, H0492: 1,	r0109: 1, H0069: 1,	S0280: 1, H0156: 1,	H0004: 1, H0618: 1,	3: 1, S0049: 1,	H0194: 1, H0251: 1,	F0103: 1, T0115: 1,	7: 1, H0457: 1,	L0041: 1, H0569: 1,	.0471: 1, H0154: 1,	5: 1, S0362: 1,	H0239: 1, H0355: 1,	H0510: 1, H0375: 1,	H0594: 1, S0022: 1,	H0428: 1, H0644: 1,	H0628: 1, H0032: 1,	.0456: 1, S0036: 1,	H0040: 1, H0616: 1,	1: 1, H0268: 1,	H0056: 1, H0623: 1,	H0100: 1, H0494: 1,	S0440: 1, H0131: 1,	H0130: 1, H0633: 1,	S0422: 1, S0426: 1,	.0369: 1, L3905: 1,
8004	8030	80220	H045	090H	H064	T010	8058	000H	H025	H019	T010	H032	L004	L047	H001	H023	H051	H059	H042	H062	1045	H004	H055	H005	H010	S044(	H013	S042	L036
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L0667: 1, L0363: 1, L0794: 1, L0803: 1, L0375: 1, L0651: 1, L0806: 1, L0805: 1, L0654: 1, L0379: 1, L0526: 1, L0519: 1, L0647: 1, L0791: 1, S0428: 1, H0144: 1, S0374: 1, H0520: 1, S0126: 1, H0711: 1, H0660: 1, H0672: 1, S0328: 1, H0639: 1, S0406: 1, H0539: 1, S0432: 1, S0037: 1, L0743: 1, L0744: 1, L0743: 1, L0592: 1, L0751: 1, S0031: 1, S0394: 1, L0592: 1, L0485: 1, L0608: 1, L0366: 1, H0136: 1,						
	Glu-9 to Gly-17.	Lys-14 to Gly-26, Glu-33 to Arg-44, Pro-64 to Pro-69,	Pro-79 to Asn-88, Thr-109 to Pro-123.		Ala-17 to Asn-23.	Ser-1 to Thr-8,
·	3355	3356		3357	3358	3359
	48 - 206	1 - 537		2 - 463	158 - 325	37 - 303
	1180	1181		1182	1183	1184
	HCQCR82R			HDABR53R	HDLBE03R	HDPF126R
	HCQCR82			HDABR53	HDLBE03	HDPF126

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																								-			
	L0759: 10, L0774: 3,	H0648: 3, H0686: 2, S0360: 2, 1,0622: 2	H0486: 2, L0521: 2,	L0775: 2, H0659: 2,	S0328: 2, L0779: 2,	L0755: 2, H0341: 1,	S0354: 1, S0358: 1,	H0351: 1, S0222: 1,	L0021: 1, H0025: 1,	L0105: 1, T0115: 1,	H0545: 1, H0571: 1,	H0050: 1, L0471: 1,	S6028: 1, S0003: 1,	H0031: 1, H0316: 1,	H0038: 1, H0087: 1,	H0494: 1, H0509: 1,	S0142: 1, L0520: 1,	L0769: 1, L0638: 1,	L0772: 1, L0794: 1,	L0803: 1, L0804: 1,	L0382: 1, L0367: 1,	L0665: 1, S0374: 1,	H0690: 1, H0684: 1,	S0044: 1, S3012: 1,	S0027: 1, L0744: 1,	L0777: 1, L0758: 1,	L0604: 1, S0026: 1 and
Glu-17 to Ala-32, Arg-39 to Trp-47.		3	•																								,
	3360		•																								
	133 - 414									•																	
	1185							•																			
	HDTAQ74R														•												
	HDTAQ74																										

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S0276: 1.				L0748: 50, L0754: 42,	L0731: 31, H0644: 30,	L0747: 29, H0551: 22,	S0418: 21, L0659: 17,	H0619: 15, L0663: 14,	L0666: 13, S0360: 10,	H0622: 10, H0031: 10,	H0553: 10, L0662: 10,	S0126: 10, L0757: 10,	L0603: 10, S0420: 8,	H0486: 8, H0013: 8,	H0050: 8, H0623: 8,	L0717: 7, H0144: 7,	L0770: 6, L0750: 6,	H0427: 5, H0024: 5,	H0328: 5, H0030: 5,	L0773: 5, L0665: 5,	L0749: 5, H0713: 4,	T0039: 4, S0280: 4,	H0012: 4, H0038: 4,	L0794: 4, L0774: 4,	L0775: 4, L0805: 4,	H0624: 3, H0170: 3,	H0171: 3, S0356: 3,	H0329: 3, S0046: 3,
	Leu-21 to Ala-27, Pro-48 to Gly-55.	Ala-14 to Leu-20.	Tyr-25 to Phe-32.					_																-	•			•
	3361	3362	3363	3364																								
	231 - 431	207 - 431	102 - 215	179 - 364	_																							
	1186	1187	1188	1189																				-				
	HDTBP08R	HDTDA21R	HDTDB88R	HDTJR38R															•									
	HDTBP08	$\overline{}$	HDTDB88	HDTJR38																								

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H0331: 3, H0575: 3,	 S0250: 3, H0032: 3,	H0591: 3, L0598: 3,	L0803: 3, L0653: 3,		S0406: 3, H0555: 3,	L0780: 3, L0605: 3,	H0667: 3, H0717: 2,	F0049: 2, S0212: 2,	H0661: 2, S0376: 2,	S0007: 2, H0208: 2,	S0476: 2, H0645: 2,	H0411: 2, H0437: 2,	H0550: 2, H0586: 2,	H0333: 2, H0599: 2,	H0042: 2, H0545: 2,	H0123: 2, H0105: 2,	H0014: 2, H0051: 2,	H0375: 2, L0142: 2,	H0598: 2, H0135: 2,	H0040: 2, S0372: 2,	.0520: 2, L0640: 2,	.0769: 2, L5566: 2,	J0772: 2, L0646: 2,	J0771: 2, L0363: 2,	.0768: 2, L0375: 2,	.0654: 2, L0776: 2,	.0809: 2, L0438: 2,	H0547: 2, H0519: 2,
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1 0600.0 1 0743.0	10002. 2, LO/43. 2,	L0744: 2, L0439: 2,	L0758: 2, L0759: 2,	L0588: 2, L0599: 2,	L0361: 2, H0716: 1,	H0294: 1, S0430: 1,	S0298: 1, S0132: 1,	H0351: 1, H0369: 1,	S0222: 1, H0370: 1,	H0392: 1, H0409: 1,	H0587: 1, H0574: 1,	H0485: 1, T0040: 1,	T0060: 1, H0244: 1,	L0021: 1, H0003: 1,	H0036: 1, H0274: 1,	H0253: 1, H0505: 1,	H0251: 1, H0544: 1,	H0546: 1, H0046: 1,	H0081: 1, H0019: 1,	T0003: 1, H0057: 1,	H0015: 1, H0373: 1,	H0275: 1, H0594: 1,	S0003: 1, H0039: 1,	H0111: 1, H0674: 1,	S0364: 1, S0036: 1,	H0090: 1, H0063: 1,	H0087: 1, H0268: 1,	H0412: 1, H0059: 1,	H0100: 1, L0564: 1,	H0561: 1, S0210: 1,
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L0369: 1, L3904: 1, L0800: 1, L0641: 1, L0804: 1, L5564: 1, L0806: 1, L0378: 1, L0526: 1, L0787: 1, L0788: 1, L0797: 1, L0793: 1, S0374: 1, H0691: 1, H0682: 1, H0690: 1, H0682: 1, H0672: 1, H0658: 1, H0518: 1, H0658: 1, S3014: 1, S0027: 1, S0028: 1, L0590: 1, L0589: 1, L0590: 1, L0589: 1, L0590: 1, L0589: 1, L0604: 1, H0668: 1, H0653: 1, S0242: 1, S0194: 1 and H0008: 1.				
	Thr-8 to Thr-22, Phe-42 to Lys-51, Arg-60 to Lys-69.	Arg-1 to Cys-23, Trp-25 to Ser-35.	Ser-10 to Thr-34, Ser-37 to Asn-89.	Thr-15 to Ser-26.
	3365	3366	3367	3368
	1 - 288	3 - 170	32 - 376	3 - 128
	1190	1191	1192	1193
	HE8QX44R	HE9QU94R	HEAHF02R	HEEAY40R
	HE8QX44	HE9QU94	HEAHF02	HEEAY40

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	•	•				•																e.		٠				-	
	H0457: 14, L0751: 13,	H0617: 8, L0761: 7,	L0666: 6, L0664: 6,	L0665: 6, H0593: 6,	L0662: 5, L0748: 5,	H0052: 4, H0014: 4,	H0529: 4, L0655: 4,	L0809: 4, L0663: 4,	H0436: 4, L0747: 4,	L0758: 4, H0592: 3,	H0587: 3, H0581: 3,	L0763: 3, L0769: 3,	L0659: 3, H0539: 3,	L0779: 3, S0434: 3,	H0506: 3, H0295: 2,	H0650: 2, H0657: 2,	L0005: 2, S0356: 2,	S0442: 2, S0354: 2,	S0360: 2, H0580: 2,	H0733: 2, H0553: 2,	H0135: 2, H0560: 2,	H0625: 2, H0647: 2,	L0374: 2, L0657: 2,	L0647: 2, H0682: 2,	H0672: 2, H0521: 2,	S0028: 2, L0743: 2,	L0749: 2, L0752: 2,	L0755: 2, L0759: 2,	L0593: 2, S0446: 2,
Glu-9 to Gly-17.	Pro-13 to Leu-25.					-	_																						
3369	3370																		÷					,					
45 - 221	6- 362			. •	,								•												•				•
1194	1195				•	•														÷									
HEGAF68R	HEOSPIIR				-								•							•	•								
HEGAF68	HEOSP11										•			•															

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L0639: 1, L0646: 1,	L0800: 1, L0641: 1,	L0642: 1, L0648: 1, I 0794: 1 1 0766: 1	L0649: 1, L0650: 1,	L0653: 1, L0776: 1,	L0629: 1, L0656: 1,	L0636: 1, L5623: 1,	L0792: 1, S0428: 1,	H0726: 1, S0310: 1,	H0690: 1, H0684: 1,	H0658: 1, H0670: 1,	S0330: 1, S0380: 1,	S0404: 1, S0406: 1,	H0555: 1, L0611: 1,	H0540: 1, L0741: 1,	L0744: 1, L0777: 1,	S0436: 1, L0601: 1,	L0366: 1, S0106: 1,	S0192: 1, H0423: 1 and	S0424: 1.						H0594: 18, L0777: 10,	L0766: 6, H0595: 6,	HU1/U: 3, HU3/3: 3,
								•											A 2 A 4 D	ASII-4 to 1 yi-7.	Ala-16 to Arg-26,	Pro-68 to GIy-/8.					
										-									2271	33/1	3372		3373	3374	3375		
															,				0,1	711 - 07	102 - 365		2 - 409	32 - 151	2-211		
																			1107	221	11197		1198	1199	1200		
																			True Cara	HFABRUIK	HFADS75R		HFIBG63R	HFIJB15R	HFIXK57R		
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565: 5,	411: 4,	756: 4,	260: 4,	171:3,	388: 3,	752: 3,	194: 3,	280: 2,	063: 2,	122: 2,	659: 2,	663: 2,	685: 1,	650: 1,	402: 1,	360: 1,	278: 1,	222: 1,	600: 1,	587: 1,	021: 1,	037: 1,	545: 1,	0057: 1,	023: 1,	036: 1,	100: 1,	065: 1,	769: 1,
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																Glu-27 to Leu-36.	Pro-3 to Tyr-22.	Lys-17 to Thr-23.	Pro-75 to Cys-89.										Cys-5 to Pro-21,
																3376	3377	3378	3379						•				3380
												•				18 - 137	3 - 86	75 - 233	1 - 270							<del></del>			18 - 314
																1201	1202	1203	1204						1				1205
														٠		HFIZQ64R	HFKKK36R	HFPEC93R	HFPIX37R										HFTDK36R
																HFIZ064	HFKKK36	HFPEC93	HFPIX37										HFTDK36

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His-66 to Leu-77,	Gln-80 to Ala-88,	Tyr-92 to Ser-98.			Val-24 to Leu-31.			Arg-2 to Ser-7.						-															
			3381	3382	3383	3384	3385	3386	3387																				
			11 - 250	353 - 57	304 - 426	54 - 230	1 - 474	53 - 277	181 - 426																				
			1206	1207	1208	1209	1210	1211	1212							·													
			HFVIB28R	HFXGR60R	HHAUD07R	<b>HHBFO21R</b>	HHEVG50R	HHFGQ65RA	HHFOE48 HHFOE48RP	00B																			
			HFVIB28	HFXGR60		HHBF021	HHEVG50	HHFGQ65	HHFOE48																				

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H0615: 1, H0688: 1, H0031: 1, H0634: 1, H0087: 1 H0334: 1	H0633: 1, H0646: 1,	L0643: 1, L0764: 1,	L0662: 1, L0767: 1,	L0775: 1, L0651: 1,	L0806: 1, L0805: 1,	L0776: 1, L0656: 1,	L0783: 1, L0383: 1,	L0543: 1, L0789: 1,	L0663: 1, H0593: 1,	H0684: 1, H0659: 1,	H0658: 1, H0660: 1,	H0709: 1, S0152: 1,	H0521: 1, H0627: 1,	L0611: 1, L0439: 1,	L0745: 1, L0759: 1,	L0593: 1, L0361: 1,	L0603: 1, S0026: 1,	H0667: 1 and H0506: 1.								L0752: 11, L0662: 9,
				•	•													1				Pro-13 to Leu-18,	Leu-37 to Arg-42,	Lys-65 to Gly-77.	,	Val-40 to Tyr-46.
		-																	3388	3389	3390	3391			3392	3393
										,									3-62	77 - 142	112 - 270	49 - 315			244 - 405	1 - 138
																			1213	1214	1215	1216			1217	1218
															•		-		HHSFG15R	HHSGP15R	HHSGQ17R	HKBAD05 HKBAD05R			HKZAD21R	HKZAE07R
														,	•				HHSFG15	HHSGP15	HHSGQ17	HKBAD05			HKZAD21	HKZAE07

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.0596: 9, L.0659: 8,	.0665: 7, L0766: 5,	.0750: 5, L0521: 4,	L0757: 4	L0775: 3	.0809: 3, L.0666: 3	.0664: 3, H0648: 3	J0755: 3, L0758: 3	.0591: 3, L0785: 2,	.0717: 2, H0036: 2	, H0529: 2	L0637: 2	.0646: 2, L0765: 2,	.0651: 2, L.0653: 2,	.0776: 2, L0655: 2,	,0663: 2, H0682: 2,	L0439: 2	L0759: 2	.0593: 2, L0595: 2	.0601; 2, H0686; 1	L0778: 1	, H0661: 1	H0662: 1, H0393: 1	, H0002:	H0599: 1, H0318: 1	H0251: 1	H0545: 1	.0041: 1, N0006: 1	, S0388: 1	1, H0606: 1
L0596: 9,	L0665: 7,	L0750: 5,	L0740: 4, I	L0771: 3, ]	L0809: 3,	L0664: 3,	L0755: 3,	L0591: 3,	L0717: 2,	H0052: 2, H0529:	L0769: 2, L0637:	L0646: 2,	L0651: 2,	L0776: 2,	L0663: 2,	L0748: 2, L0439:	L0731: 2, L0759:	L0593: 2,	L0601: 2,	S0134: 1, L0778:	H0484: 1, H0661:	H0662: 1	H0643: 1	H0599: 1	S0049: 1, H0251:	L0040: 1, H0545:	L0041: 1,	N0007: 1, S0388:	L0483: 1,
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H0038: 1, H0040: 1, H0551: 1, H0413: 1, H0558: 1, S0002: 1, L0763: 1, L0772: 1, L0763: 1, L0772: 1, L0542: 1, L0649: 1, L0542: 1, L0526: 1, L0783: 1, L0526: 1, L0783: 1, L0528: 1, L0788: 1, L0528: 1, H0689: 1, H0657: 1, H0689: 1, H0659: 1, H0660: 1, S0004: 1, S0044: 1, S0404: 1, L0755: 1, H0436: 1, L0756: 1, L0742: 1, L0756: 1, L0742: 1, L0756: 1, L0603: 1, H0543: 1, H0422: 1 and H0543: 1, H0422: 1 and H0553: 1, H0422: 1 and		
6	Gly-1 to Val-7, Lys-15 to Leu-25, Pro-52 to Cys-57.	Lys-47 to Glu-52, Ala-71 to Asp-76, Asp-89 to Ser-110.
	3394	3395
	79 - 327	3 - 368
	1219	1220
	HKZAG45 HKZAG45RA	HKZ,AI14R
	HKZAG45	HKZA114

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S0474: 22, S0360: 13,	H0556: 11, S0358: 11.	L0747: 11, H0087: 10,	S0126: 10, H0124: 9,	S0410: 8, S0278: 8,	H0024: 8, L0588: 8,	S0206: 7, S0046: 6,	L0731: 6, H0543: 6,	H0265: 5, S0212: 5,	S0045: 5, H0620: 5,	H0594: 5, H0090: 5,	H0063: 5, H0551: 5,	T0042: 5, L0530: 5,	H0144: 5, H0696: 5,	S3014: 5, L0758: 5,	S0192: 5, S0116: 4,	H0549: 4, H0013: 4,	H0530: 4, H0544: 4,	H0081: 4, L0471: 4,	H0012: 4, H0644: 4,	H0163: 4, H0412: 4,	H0100: 4, L0769: 4,	L0771: 4, S0027: 4,	L0740: 4, L0757: 4,	L0605: 4, H0423: 4,	H0624: 3, H0713: 3,	S0418: 3, S0444: 3,	S0408: 3, H0251: 3,	H0545: 3, S0051: 3,	H0083: 3, H0290: 3,
3396   Ser-9 to Ala-15.			٠					•																					
3396																													
2 - 79		٠																,											
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T0041: 3. S0344: 3.	L0662: 3, L0768: 3,	L0806: 3, L0659: 3,	L0608: 3, S0194: 3,	H0352: 3, S0040: 2,	H0717: 2, H0716: 2,	S0134: 2, H0341: 2,	H0402: 2, H0305: 2,	S0356: 2, H0580: 2,	S0476: 2, H0411: 2,	H0392: 2, H0586: 2,	H0575: 2, H0052: 2,	H0327: 2, H0546: 2,	H0373: 2, L0163: 2,	H0687: 2, H0284: 2,	H0286: 2, H0428: 2,	H0039: 2, H0628: 2,	H0413: 2, H0056: 2,	S0440: 2, L0598: 2,	L0770: 2, L0521: 2,	L0776: 2, L0542: 2,	L0783: 2, L0529: 2,	L0663: 2, H0519: 2,	H0659: 2, S0378: 2,	H0518: 2, S0044: 2,	H0555: 2, H0627: 2,	S0028: 2, L0748: 2,	L0756: 2, L0755: 2,	S0031: 2, H0445: 2,	L0596: 2, L0591: 2,
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L0361 H0506 H0157	T0049 S0282	H0255 S0420	L0717	H0441	H0492	T0039	H0635	S0280	L0021	S0049	H0085	T0115	9800H	H0123	H0051	H0408	H0416	S0003	L0483	H0617	H0673	H0135
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H0668: 1, H0653: 1, H0542: 1, H0422: 1, S0042: 1, S0456: 1 and S0446: 1.					L0743: 19, L0731: 13, L0744: 12, L0748: 11, L0666: 9, L0751: 9, L0664: 8, H0144: 8, H0333: 7, H0617: 7, L0769: 7, L0662: 7, S0022: 6, H0616: 6, H0087: 6, L0483: 5, H0181: 5, L0517: 5, L0519: 5, L0754: 5, H0677: 5, S0051: 4,
	Ser-1 to Lys-6, Asp-48 to Gly-55, Pro-68 to Phe-76, Pro-83 to Gly-89, Asn-100 to Asp- 108, Glu-134 to Lys-141, Lys-144 to Asp-160.	Met-41 to Gln-47.	Gln-54 to Leu-59, Glu-70 to Lys-76, Lys-147 to Ser-154.	Asp-1 to His-35, Pro-67 to His-75.	Ser-11 to Gly-18.
	3397	3398	3399	3400	3401
	1 - 480	3 - 266	1 - 462	1 - 276	2 - 103
	1222	1223	1224	1225	1226
	HKZAQ39 HKZAQ39R	HKZAR58R	HKZAS59R	HKZAS64R	HKZAS84R
	HKZAQ39	HKZAR58	HKZAS59	HKZAS64	HKZAS84

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H0658: 4, L0747: 4,	L0750: 4, L0757: 4,	H0295: 3, T0049: 3,	H0255: 3, L0622: 3,	F0039: 3, H0253: 3,	H0545: 3, L0163: 3,	H0594: 3, H0188: 3,	H0673: 3, H0100: 3,	S0142: 3, L0372: 3,	L0775: 3, L0776: 3,	L0657: 3, L0382: 3,	L0665: 3, H0672: 3,	S0027: 3, L0742: 3,	.0752: 3, 80260: 3,	H0445: 3, L0596: 3,	.0588: 3, L0599: 3,	S0420: 2, H0637: 2,	S0045: 2, S0132: 2,	S0300: 2, S0278: 2,	S0222: 2, H0431: 2,	H0392: 2, H0599: 2,	H0575: 2, H0052: 2,	H0309: 2, H0085: 2,	H0597: 2, H0544: 2,	H0428: 2, H0124: 2,	S0036: 2, H0163: 2,	H0038: 2, H0413: 2,	H0529: 2, L0369: 2,	.0763: 2, L0770: 2,	.0638: 2, L0764: 2,
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.0771: 2, L0803: 2,	,0804: 2, L0375: 2,	.0655: 2, L0384: 2,	.0809: 2, L.0532: 2,	S0374: 2, S0126: 2,	H0670: 2, H0651: 2,	H0521: 2, S0028: 2,	.0740: 2, L0485: 2,	.0362: 2, L0601: 2,	30192: 2, S0424: 2,	.0600: 2, H0556: 1,	70002: 1, H0686: 1,	30040: 1, S0342: 1,	H0294: 1, S0114: 1,	S0134: 1, H0650: 1,	57: 1, L0785: 1,	H0341: 1, S0180: 1,	S0212: 1, H0484: 1,	H0483: 1, H0254: 1,	H0671: 1, H0662: 1,	H0402: 1, H0638: 1,	S0418: 1, S0356: 1,	F0007: 1, S0358: 1,	S0007: 1, H0208: 1,	H0441: 1, H0438: 1,	H0587: 1, S0005: 1,	.0623: 1, L0477: 1,	F0114: 1, S0280: 1,	.0021: 1, H0590: 1,	H0004: 1, H0618: 1,
1.07	F08(	7007	1080	5037	90H	H05	1.07	1030	S019	907	T00	800 <u>x</u>	H02	S013	H06	H03	S021	H04	90H	H04	S041	T00T	)00S	H04	H05	706	T01	T000	H00
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S0010: 1, H0318: 1,	S0049: 1, H0251: 1,	H0596: 1, T0110: 1,	H0327: 1, H0009: 1,	H0123: 1, L0471: 1,	H0006: 1, H0014: 1,	H0051: 1, S0388: 1,	H0510: 1, S0334: 1,	I0687: 1, T0023: 1,	.0006: 1, H0424: 1,	H0182: 1, H0606: 1,	H0383: 1, H0165: 1,	H0166: 1, S0366: 1,	I0135: 1, H0090: 1,	70067: 1, H0488: 1,	I0412: 1, T0069: 1,	S0112: 1, L0564: 1,	10494: 1, S0015: 1,	H0561: 1, L0762: 1,	.0640: 1, L0637: 1,	.0761: 1, L0667: 1,	.0772: 1, L0373: 1,	L0646: 1, L0643: 1,	.0374: 1, L0765: 1,	.0773: 1, L0648: 1,	.0521: 1, L0768: 1,	.0364: 1, L0533: 1,	.0650: 1, L0774: 1,	,0376: 1, L0806: 1,	.0652: 1, L0653: 1,
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L0606: 1, L0629: 1, L0659: 1, L0636: 1, L0542: 1, L0526: 1, L0518: 1, L0782: 1, H0690: 1, H0689: 1, H0683: 1, H0659: 1, H0660: 1, S0328: 1, S0330: 1, S0380: 1, H0522: 1, S0004: 1, H0555: 1, L0611: 1, S3014: 1, S0206: 1, L0755: 1, L0605: 1, L0589: 1, L0605: 1, L0591: 1, L0608: 1, L0591: 1, L0608: 1, L0591: 1, L0608: 1, L0591: 1, L0608: 1, H0665: 1, S0242: 1, S0194: 1, H0543: 1, H0423: 1, S0460: 1,			L0771: 3, L0021: 1, S0036: 1, H0689: 1 and
	Val-6 to Lys-13, Tyr-23 to Asn-33, Lys-46 to Lys-51, Leu-75 to Asn-85, Asp-101 to Glu-106.	Cys-1 to Val-33, Ala-47 to Glu-54.	
	3402	3403	3404
	2 - 412	2 - 163	137 - 361
	1227	1228	1229
	HKZAV69R	HKZAV72R	HKZAX48R
	HKZAV69	HKZAV72	HKZAX48

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H0659: 1.												•							L0766: 5, L0751: 4,	H0662: 2, H0253: 2,	L0754: 2, L0750: 2,	H0170: 1, H0587: 1,	HU32/: 1, HU0000: 1,
	Arg-5 to Leu-11, Arg-32 to Lys-39, Thr-117 to Lys-122.	Gln-41 to His-48, Leu-55 to Gly-61, Pro-71 to Gly-79, Ala-104 to His-111.		Ala-2 to Lys-12.			Pro-77 to Lys-85.	Pro-82 to Lys-92.		Gln-20 to Ser-30.	Phe-45 to Ser-51.			Lys-17 to Thr-23.	Met-40 to Thr-52.		Lys-18 to Lys-30.	Lys-18 to Lys-30.	Pro-37 to Arg-46,	Gln-75 to Gly-81,	Pro-83 to Ser-89.		
	3405	3406	3407	3408	3409	3410	3411	3412	3413	3414	3415	3416	3417	3418	3419	3420	3421	3422	3423				
	2 - 520	1 - 381	2 - 112	2 - 190	2 - 151	430 - 648	144 - 398	118 - 411	331 - 585	2 - 337	57 - 275	2 - 238	131 - 199	<i>61 - 225</i>	3 - 161	324 - 145	136 - 276	2 - 196	127 - 474				
	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248				
	HKZBB22R	HKZBS89R	HLDQQ80R	HLDXE19R	<b>HLICD55R</b>	HLJB132R	HLJBI37R	HLTHA47R	HLTJA50R	HLWAC95 HLWAC95R	HLWDZ38R	HLYDIS7   HLYDIS7R	HMCF019 HMCF019R	HMCIZ44R	HMCJE25R	HMSPB25 HMSPB25R	HMVBB04 HMVBB04R	<b>HNAAE01R</b>	HNBUP08R			<u>.                                      </u>	
	HKZBB22	HKZBS89	HLDQQ80	HLDXE19	HLICD55	HLJBI32	HLJBI37	HLTHA47	HLTJA50	HLWAC95	HLWDZ38	HLYDI57	HMCF019	HMCIZ44	HMCJE25	HMSPB25	HMVBB04	HNAAE01	HNBUP08				

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H0428: 1, S0210: 1, L0763: 1, L0770: 1,	L0769: 1, L0646: 1,	L0662: 1, L0803: 1,	L0776: 1, L0655: 1,	L0658: 1, L0659: 1,	L0789: 1, L0666: 1,	L0663: 1, L0665: 1,	H0658: 1, H0670: 1,	H0660: 1, S0380: 1,	L0740: 1, L0755: 1,	L0758: 1, L0589: 1,	L0361: 1 and S0192: 1.	L0783: 4, S0280: 2,	H0662: 1, H0550: 1,	L0764: 1, L0662: 1,	L0809; 1 and H0684: 1.												
		·	<i>:</i>													,	Glu-18 to Asp-35,	Leu-52 to Gly-82.								Thr-1 to Ser-8,	Pro-22 to Ser-27.
					٠	•						3424				3425	3426		3427	3428	3429	3430	3431	3432	3433	3434	
			•									2 - 289				179 - 541	1 - 279		2 - 454	1 - 351	33 - 425	397 - 621	116 - 232	3 - 551	112 - 219	1 - 138	
												1249				1250	1251		1252	1253	1254	1255	1256	1257	1258	1259	
								-				HNBUY37 HNBUY37R			•	HNBVL57R	HNHBC18R		HNJFE85R	HNKCO29 HNKCO29R	HNOAA22 HNOAA22R	HNOAB27 HNOAB27R	HNOAB28R	HNOAB88 HNOAB88R	HNOAC04R	HNOAC15 HNOAC15R	
		-					•					HNBUY37				HNBVL57	HNHBC18		HNJFE85	HNKC029	HNOAA22	HNOAB27	HNOAB28	HNOAB88	HNOAC04	HNOAC15	

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Thr-5 to Thr-14,	Arg-20 to His-25,	Arg-35 to Gly-40,	Lys-58 to Arg-66,	His-101 to Ser-107,	Arg-111 to Lys-125,	Leu-131 to Glu-140.	Pro-13 to Arg-21,	Ser-42 to Phe-52,	Lys-69 to Val-77,	lle-82 to Glu-87,	Gly-93 to Gln-99,	Val-118 to Asn-124,	Lys-143 to Leu-152,	Arg-154 to Glu-178.	Thr-5 to Thr-14,	Arg-20 to His-25,	Arg-35 to Gly-40,	Lys-58 to Arg-66,	His-101 to Ser-107,	Arg-111 to Lys-125,	Leu-131 to Arg-139,	Arg-145 to Leu-153.	Arg-11 to Pro-17.	-			Cys-2 to Gly-7.	Trp-6 to Glu-12.
3435		٠					3436								3437								3438	3439	3440	3441	3442	3443
89 - 577						•	2 - 535								67 - 555	٠							2 - 145	42 - 362	28 - 177	2 - 364	3 - 524.	351 - 536
1260							1261								1262						٠		1263	1264	1265	1266	1267	1268
HNOAE50   HNOAE50R							HNOAE65R								HNOAF22R								HNOAF36R	HNOAG34R	HNOAG94R	HNOAH67 HNOAH67R	HNOAJ67R	HNOAJ76R
HNOAE50	•						HNOAE65								HNOAF22								HNOAF36	HNOAG34	HNOAG94	HNOAH67	HNOAJ67	HNOAJ76

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.0748: 7, L0731: 6,	L0592: (	.0770: 5, L0747: 5,	.0749: 5, L.0750: 5,	H0136: 5, H0050: 4,	10625: 4, H0529: 4,	.0769: 4, L0752: 4,	J0758: 4, S0007: 3,	H0591:	, L0761:	L0766:	.0655: 3, L0657: 3,	.0666: 3, H0696: 3,	10436: 3, L0754: 3,	.0756: 3, L0755: 3,	H0543: 3, H0686: 2,	, S0420:	H0351:	, S0049:	H0052: 2, L0163: 2,	H0428: 2, H0090: 2,	H0040: 2, T0041: 2,	10494: 2, H0646: 2,	.0763: 2, L0521: 2,	0776: 2, L0665: 2,	10144: 2, L0751: 2,	S0031: 2	.0581: 2, L0608: 2,	H0170: 1, H0171: 1,	, S0114:
L0748: 7,	L0591: 6,	L0770: 5,	L0749: 5,	H0136: 5	H0625: 4	L0769: 4,	L0758: 4,	S0045: 3, H0591: 3,	H0561: 3	L0645: 3,	L0655: 3,	L0666: 3,	H0436: 3	L0756: 3,	H0543: 3	H0125: 2, S0420: 2,	S0376: 2,	H0581: 2	H0052: 2	H0428: 2	H0040: 2	H0494: 2	L0763: 2,	L0776: 2,	H0144: 2	L0745: 2,	L0581: 2,	H0170: 1	H0394: 1, S0114:
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S0218: 1, H0656: 1,	S0444: 1, S0360: 1,	, H0580: 1,	H0619: 1, H0393: 1,	L0717:.1, H0497: 1,	, T0039: 1,	F0114: 1, H0013: 1,	, H0635: 1,	H0427: 1, H0318: 1,	, L0157: 1,	H0081: 1, S0051: 1,	, S0003: 1,	L0483: 1, H0316: 1,	, H0634: 1,	H0551: 1, H0560: 1,	S0440: 1, H0538: 1,	, L0796: 1,	L0667: 1, L0772: 1,	, L0764: 1,	, L0363: 1,	, L0649: 1,	, L0650: 1,	, L0775: 1,	, L0524: 1,	, L0659: 1,	L0663: 1, L0664: 1,	, H0520: 1,	S0126: 1, H0435: 1,	H0660: 1, H0672: 1,	H0651: 1, H0521: 1,
S0218: 1,	S0444: 1,	H0637: 1	H0619: 1	L0717: 1,	H0486: 1	T0114: 1	· H0244: 1, H0635:	H0427: 1	H0178: 1	H0081: 1	H0292: 1	L0483: 1	H0135: 1	H0551: 1	S0440: 1	L0640: 1	L0667: 1	L0373: 1	L0662: 1	L0768: 1,	L0388: 1	L0774: 1,	L0375: 1	L0653: 1, ]	L0663: 1	S0053: 1	S0126: 1	H0660: 1	H0651: 1
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H0704: 1, S0044: 1, H0187: 1, S0028: 1, L0740: 1, L0779: 1, L0777: 1, L0753: 1, L0759: 1, L0596: 1, L0597: 1, L0595: 1, S0026: 1, H0217: 1 and S0384: 1.												L0666: 10, H0510: 8,	H0046: 6, H0617: 6,	S0051: 4, H0135: 4,	L0776: 4, L0439: 4,	H0509: 3, L0665: 3,	L0747: 3, H0445: 3,	H0662: 2, S0420: 2,	S0222: 2, H0574: 2,	H0632: 2, H0427: 2,
				Phe-74 to Pro-81.	Gly-1 to Leu-6,	Pro-47 to Asp-52, Lys-63 to Glu-68.	Are-9 to Are-27.	Gly-43 to Lys-48,	Asp-61 to Ser-67,	Ala-124 to Gly-130,	Thr-146 to Lys-151, Phe-165 to Lys-170.									
·	3444	3445	3446	3447	3448		3449	\ •				3450								
	2 - 157	43 - 207	1 - 180	403 - 759	2 - 283	:	2 - 730	) ) 				2 - 664			-					٠
	1269	1270	1221	1272	1273		1274					1275			_					
	<b>HNOAK11R</b>	<b>HNOAL51R</b>	HNOAN85 HNOAN85R	HNOAO59R	HNOA071 HNOA071R		HNOAP21R					HNOAQ24 HNOAQ24R								
	HNOAK11	HNOAL51	HNOAN85	HNOAO59	HNOA071		HNOAP21					HNOAQ24								

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)618:	052:	)123:	)428:	.799	657: (	.:499	)651:	592: 3	601: 3	212: ]	)255:	354:	025:	357:	592:	:600	280:	045	327:	178:	246:	071:	028:	023:	124:	264:	633:	142:	371: ]
2, H(	2, H(	2, H(	2, H(	2, L0	2, L0	2, L0	2, H(	2, LO	2, L0	1, SO	1, H(	1, S0	1, S6	1, H(	1, H(	1, N	1, S0	1, HC	1, H0	1, HC	1, HC	1, HC	1, S6	1, T0	1, H0	1, H0	1, HC	1, S0	1, LO
H0575: 2, H0618: 2,	H0253: 2, H0052: 2,	H0545: 2, H0123: 2	H0687: 2, H0428: 2,	H0100: 2, L0662: 2,	.0806: 2, L0657: 2,	.0659: 2, L0664: 2,	H0691: 2, H0651:	.0744: 2, L0592: 2,	599:	S0040: 1, S0212:	H0483: 1, H0255:	3663:	H0208: 1, S6022: 1	H0441: 1, H0357:	3455:	H0331: 1, N0009: 1,	3013:	3349:	S0049: 1, H0327:	H0544: 1, H0178:	3012:	H0024: 1, H0071:	3107:	H0266: 1, T0023:	Г0006: 1, Н0124:	S0036: 1, H0264:	H0059: 1, H0633:	H0647: 1, S0142:	L0369: 1, L0371:
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L0770: 1, L0769: 1, L0645: 1, L0764: 1, L0651: 1, L075: 1, L0651: 1, L0525: 1, L0378: 1, L0653: 1, L0518: 1, L0809: 1, L0789: 1, L0792: 1, H0520: 1, S0126: 1, H0659: 1, H0658: 1, H0672: 1, H0658: 1, H0672: 1, S0044: 1, S0028: 1, L0743: 1,	L0748: 1, S0031: 1, L0485: 1, H0653: 1, H0665: 1, H0667: 1, S0192: 1 and L0698: 1.		L0794: 3, H0657: 2, L0766: 2, L0783: 2, L0789: 2, L0777: 2, L0759: 2, H0656: 1, S0116: 1, S0444: 1, S0360: 1, H0431: 1, S0010: 1, H0052: 1, H0596: 1, H0687: 1,
		Ser-15 to Glu-23, Val-33 to Gly-40, Arg-47 to Pro-59, Ser-64 to Phe-70, Gly-92 to Lys-97, Lys-155 to Glu-166.	Pro-5 to Gly-11, Ser-20 to Ser-27.
		3451	3452
	. •	1 - 642	122 - 400
		1276	1277
		HNOAQ47 HNOAQ47R	HNOAR74 HNOAR74R
·		HNOAQ47	HNOAR74

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H0634: 1, L0637: 1, L0648: 1, L0649: 1, L0804: 1, L0774: 1, L0776: 1, L0655: 1, L0606: 1, L0809: 1, H0144: 1, H0698: 1, L0438: 1, H0690: 1, H0660: 1, H0651: 1, L0747: 1, L0749: 1, L0758: 1, L0601: 1, S0242: 1, S0196: 1 and H0543: 1.	L0758: 6, H0031: 4, H0341: 3, S0022: 3, S0376: 2, H0586: 2, H0156: 2, H0575: 2, L0655: 2, L0809: 2, H0542: 2, S0027: 2, H0445: 2, S0027: 2, H0445: 1, H0574: 1, H0486: 1, H0013: 1, H0318: 1, H0327: 1, L0157: 1, H0015: 1, H0083: 1, S0214: 1, H0039: 1, S0214: 1, H0591: 1, H0673: 1, H0529: 1, H0494: 1, H0529: 1, H0494: 1, H0529: 1,
	Ser-48 to Leu-56, Ser-70 to Val-75, Thr-83 to Ala-92.
	3453
	278 - 562
	1278
	HNOAR85R
	HNOAR85

L0372: 1, L0764: 1, L0794: 1, L0649: 1, L0651: 1, L0775: 1, L0657: 1, L0789: 1, L0663: 1, H0519: 1, S0126: 1, H0684: 1, H0660: 1, H0666: 1, H0651: 1, R0518: 1, H0521: 1, S0028: 1, L0747: 1, L0777: 1, L0731: 1, S0194: 1,			H0457: 4, H0441: 3, H0393: 2, H0052: 2, H0620: 2, S0144: 2, H0521: 2, H0341: 1, S0358: 1, H0587: 1, H0632: 1, H0581: 1, H0622: 1, H0424: 1, H06213: 1, S0366: 1, H0163: 1, H0132: 1, S0142: 1, H0529: 1,
	Asn-80 to Gly-86, Glu-133 to Arg-138.	Leu-1 to Thr-7, Pro-39 to Ser-48, Trp-62 to Thr-68.	Pro-28 to Tyr-37, Leu-52 to Trp-57, Lys-109 to Leu-114.
	3454	3455	3456
3	84 - 521	3 - 254	2 - 385
	1279	1280	1281
	HNOAS07R	HNOAS36R	HNOAS92R
	HNOAS07	HNOAS36	HNOAS92

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S3014: 1, E0748: 1, L0777: 1 and L0599: 1.	L0794: 5, H0052: 4,	H045/: 4, L0438: 4, H0651: 4 H0581: 3	1, 10277; 3, 20116; 2,	S0007: 2, S0222: 2,	S0049: 2, N0006: 2,	L0163: 2, S6028: 2,	L0351: 2, H0130: 2,	L0638: 2, L0803: 2,	L0805: 2, L0439: 2,	L0754: 2, L0750: 2,	L0755: 2, H0580: 1,	H0645: 1, H0486: 1,	H0013: 1, S0346: 1,	H0009: 1, L0157: 1,	H0567: 1, H0562: 1,	H0050: 1, T0010: 1,	H0606: 1, H0040: 1,	H0063: 1, S0210: 1,	L0761: 1, L0667: 1,	L0774: 1, L0526: 1,	L0532: 1, L0666: 1,	L0665: 1, H0658: 1,	H0521: 1, H0576: 1,	L0753: 1, L0758: 1,	L0759: 1, L0593: 1,	L0366: 1, H0543: 1 and	S0462: 1.
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·			·				L0747: 16, H0651: 10,	H0561: 9, L0758: 8,	H0046: 7, L0663: 7,	S0026: 7, H0656: 6,	H0393: 6, H0494: 6,	L0774: 6, L0659: 6,	L0665: 6, L0750: 6,	L0731: 6, L0596: 6,	H0543: 6, H0341: 5,	H0575: 5, H0529: 5,	L0662: 5, L0655: 5,	H0539: 5, L0439: 5,	L0752: 5, S0114: 4,	H0657: 4, H0351: 4,	H0581: 4, H0551: 4,	H0560: 4, S0372: 4,	L0769: 4, L0764: 4,	L0776: 4, H0144: 4,	H0660: 4, H0648: 4,	H0672: 4, S0028: 4,	L0749: 4, L0362: 4,	H0580: 3, H0497: 3,	H0486: 3, H0318: 3,
	Lys-28 to Tyr-49,	Arg-75 to Ala-83,	Thr-90 to Ala-95,	Arg-107 to Asp-114,	Arg-137 to Ser-146.		Arg-1 to Gly-6,	Lys-21 to Gly-29,	Gln-51 to Gly-56,	Pro-82 to Asp-90,	Lys-175 to Ser-180.																		
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H0014.3 H0373.3	H0553; 3, H0038; 3	70041: 3, S0002: 3,	.0761: 3, L0664: 3,	S0126: 3, H0658: 3,	5: 3, S03	S0152: 3, H0521:	H0707: 3, L0589:	.0605: 3, L0599: 3,	.0593: 3, H0423: 3,	H0265: 2, H0661:	S0356: 2, S0358: 2,	S0360: 2, S0408: 2,	S0410: 2, S0046: 2,	H0409: 2, S0280: 2,	H0251: 2, L0738: 2,	.0471: 2, H0057:	.0185: 2, H0594: 2,	H0188: 2, S0003: 2,	H0090: 2, H0412: 2,	H0413: 2, S0440:	S0150: 2, S0144: 2,	H0538: 2, L0763: 2,	JO627: 2, L0775: 2,	.0653: 2, H0519: 2,	H0435: 2, H0659: 2	HO436: 2, HO478: 2,	S0027: 2, L0756: 2,	2, L07	
H0012	H0552	T0041	L0761	S0126	)990H	S0152	H0707	T0605	L0593	H026	S0356	S0360	S0410	H0409	H025]	L0471	L0185	H0188	H009	H0413	S0150	H0538	L0627	L0653	H0435	H0436	S0027	L0755: 2,	H0445: 2,
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H0633: 1, S0208: 1,	S0422: 1, S0426: 1,	L0520: 1, L0762: 1,	L0770: 1, L0796: 1,	L0630: 1, L0646: 1,	L0773: 1, L0766: 1,	L0381: 1, L0388: 1,	L0804: 1, L0650: 1,	L0375: 1, L0651: 1,	L0784: 1, L0656: 1,	L0518: 1, L0519: 1,	L0530: 1, L0368: 1,	S0053: 1, S0374: 1,	H0547:.1, H0689: 1,	H0682: 1, H0684: 1,	H0670: 1, H0518: 1,	S0013: 1, H0704: 1,	S0044: 1, H0214: 1,	S0404: 1, S0406: 1,	H0555: 1, H0576: 1,	S0392: 1, L0751: 1,	S0031: 1, H0444: 1,	S0106: 1, S0011: 1,	H0667: 1, S0192: 1,	S0242: 1, S0276: 1,	L0697: 1 and L0360: 1.				
																								-		Pro-14 to Gly-22,	Ile-31 to Ala-36,	Lys-53 to Ile-65.	Val-2 to Leu-20.
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		H0556: 11, H0265: 9,	H0012: 4, H0616: 4, H0393: 3 H0620: 3	L0163: 3, H0135: 3,	S0002: 3, H0651: 3,	L0596: 3, H0542: 3,	H0543: 3, S0418: 2,	S0045: 2, H0266: 2,	S0150: 2, H0521: 2,	L0591: 2, S0040: 1,	H0341: 1, H0663: 1,	S0354: 1, S0358: 1,	S0046: 1, S0222: 1,	H0586: 1, H0486: 1,	H0635: 1, H0618: 1,	H0581: 1, S0049: 1,	H0263: 1, T0103: 1,	T0110: 1, H0009: 1,	T0003: 1, H0373: 1,	S0051: 1, S0336: 1,	H0290: 1, H0286: 1,	H0328: 1, H0622: 1,	H0553: 1, H0124: 1,	H0090: 1, S0038: 1,	H0100: 1, T0042: 1,	S0015: 1, H0560: 1,	H0509: 1, H0130: 1,	L0654: 1, H0144: 1,
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	Pro-1 to Lys-10, Phe-31 to Asn-37, Gln-42 to Leu-50,	Arg-58 to Gln-65, Leu-86 to Ala-91,	Tyr-101 to Ala-11	9-6		-53.	14-J		/s-2(	Ala-26 to Lys-32,	Ala-63 to Leu-66, Gly-128 to Val-135,	Phe-142 to Asn-151		
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L0770: 1, L0769: 1, L0372: 1, L0764: 1, L0771: 1, L0773: 1, L0775: 1, L0375: 1, L0807: 1, L0656: 1, L0807: 1, L0656: 1, L0659: 1, L0540: 1, L0783: 1, L0384: 1, S0216: 1, H0144: 1, H0691: 1, H0690: 1, H0691: 1, H0690: 1, H0670: 1, H0678: 1, S0328: 1, S0378: 1, S0328: 1, S0378: 1, S0328: 1, L0741: 1, H0445: 1, L0596: 1, S0192: 1, S0194: 1,	•				L0748: 17, L0749: 13,
	Arg-8 to Gln-18, Thr-24 to Gly-35, Lys-53 to Gly-61, Pro-77 to Cys-82, Pro-103 to Gln-117.	144.4 00	Leu-14 to Arg-20, Ser-29 to Ser-38, Pro-43 to Gly-52.	Ile-34 to Ala-40.	Arg-70 to Ser-78.
	3475	3476	3477	3478	3479
	2 - 355	2 - 439	10 - 165	288 - 572	2 - 283
	1300	1301	1302	1303	1304
	HNOJB57R	HNOJD14R	HNOJFZOR	HNOJG05R	HNOJH48R
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L0666: 9, H0547: 8,	L0758: 8, S0358: 7,	S0003: 7, L0754: 7,	L0485: 7, S0280: 6,	H0038: 6, H0521: 6,	S3014: 6, L0777: 6,	L0755: 6, H0068: 5,	L0659: 5, L0665: 5,	L0744: 5, L0740: 5,	L0591: 5, H0657: 4,	H0656: 4, S0116: 4,	H0318: 4, H0266: 4,	H0687: 4, H0031: 4,	H0040: 4, S0002: 4,	S0206: 4, L0752: 4,	H0445: 4, H0542: 4,	H0423: 4, H0497: 3,	H0013: 3, H0427: 3,	H0046: 3, H0014: 3,	H0615: 3, L0142: 3,	S0036: 3, H0090: 3,	H0551: 3, S0440: 3,	L0662: 3, L0767: 3,	H0696: 3, S0027: 3,	S0028: 3, L0731: 3,	L0362: 3, S0196: 3,	H0662: 2, H0638: 2,	H0580: 2, S0045: 2,	S0222: 2, H0587: 2,	H0486: 2, H0706: 2,
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S0010: 2, S0346: 2,	T0048: 2, S0474: 2,	H0581: 2, H0428: 2,	L0483: 2, H0553: 2,	S0366: 2, H0634: 2,	H0616: 2, H0412: 2,	H0623: 2, L0763: 2,	L0637: 2, L0667: 2,	L0646: 2, L0768: 2,	L0774: 2, L0657: 2,	L0663: 2, H0144: 2,	S0374: 2, H0520: 2,	H0519: 2, S0126: 2,	S0328: 2, S0146: 2,	H0555: 2, H0436: 2,	L0747: 2, L0595: 2,	S0026: 2, S0194: 2,	H0506: 2, L0600: 2,	H0170: 1, H0171: 1,	H0556: 1, T0002: 1,	H0686: 1, S0114: 1,	T0049: 1, S0001: 1,	S0282: 1, H0663: 1,	H0305: 1, S0356: 1,	S0444: 1, H0329: 1,	S0046: 1, L0717: 1,	H0411: 1, H0550: 1,	H0441: 1, H0370: 1,	H0600: 1, S0005: 1,	H0333: 1, H0331: 1,
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	Lys-36 to Gln-48, Gln-56 to Ser-72, Gly-82 to Val-105, Lys-114 to Lys-120, Ser-122 to Cys-133. Ala-1 to Ser-6.	
	3481	
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H0575: 1, H0150: 1, H0620: 1, T0003: 1, H0673: 1, L0662: 1, L0650: 1, L0774: 1, L0375: 1, L0807: 1, L0515: 1, L0659: 1, L0666: 1, S0374: 1, H0694: 1, L0747: 1, L0749: 1, L0779: 1 and L0755: 1.			L0588: 14, S0046: 13,	S0045: 12, T0049: 7,	_	<u> </u>	T0048: 6, H0575: 5,	L0747: 5, H0254: 4,	H0618: 4, H0617: 4,	H0124: 4, H0413: 4,	H0052: 3, H0024: 3,	H0553: 3, H0269: 3,	H0412: 3, H0056: 3,	H0623: 3, L0764: 3,	L0659: 3, L0809: 3,	L0666: 3, L0750: 3,	L0758: 3, L0600: 3,	S0001: 2, H0255: 2,	H0661: 2, H0619: 2,
	Lys-19 to Asn-25, Pro-61 to Lys-66.		Ser-27 to Gly-38,	Ser-63 to Trp-72,	Trp-79 to Asn-84,	Arg-133 to Trp-139.					•	-	-						
	3483	3484	3485		,														
	1 - 261	2 - 385	1 - 462																
	1308	1309	1310																
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, H05	, H02	2, H0(	2, H06	, S00	, LO7	, L07	, L07	, L07	1,104	, L06	, L07	, H02	, H04	I, H0	l, H0	l, H02	1, S00	, H02	l, H0(	I, H0(	l, HO	l, H00	I, H0	, L05	, L06	, L06	, L08	, L06	, L08
022: 2	280: 2	150:2	H0188: 2, H0644:	364: 2	369: 2	803: 2	375: 2	,0438: 2, ]	748: 2	.0779: 2, 1	024: 1	S0360: 1, H0208: 1	.0717: 1, H0437:	H0369: 1, H0549:	H0042: 1, H0309:	H0085: 1, H0263:	H0123: 1, S0050:	.0163: 1, H0266:	H0687: 1, H0039:	H0622: 1,	H0031: 1, H0163:	H0616: 1,	H0264: 1, H0268:	.0763: 1,	.0769: 1,	,0643: 1,]	.0794: 1, ]	.0774: 1, L0651:	.0378: 1, L0806:
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L0555: 1, L0634: 1, L0788: 1, L0663: 1, L0665: 1, S0044: 1, S0190: 1, L0744: 1, L0749: 1, L0731: 1, H0445: 1, L0589: 1, L0361: 1, L0366: 1 and S0458: 1.												-						
	Glu-1 to Ser-9, Pro-60 to Gln-66.	Gly-105 to Glu-110, Ala-133 to Tyr-142.		Trp-42 to Glu-50.	Phe-164 to Leu-170.	Gln-30 to Gly-36,	Lys-43 to Lys-54,	1 III-/3 to IIe-/9.		Lys-17 to Leu-27,	Thr-39 to Leu-44,	Asp-62 to Gly-70,	Arg-89 to Asp-94,	Arg-102 to Gly-113,	Lys-127 to Glu-132,	Thr-152 to Arg-160.		Gly-8 to Ala-15, Leu-33 to His-50,
	3486	3487	3488	3489	3490	3491			3492	3493			_	•			3494	3495
	204 - 479	3 - 428	426 - 265	12 - 302	1 - 510	2 - 268			2 - 85	1-510	_						188 - 418	2 - 331
	1311	1312	1313	1314	1315	1316			1317	1318							1319	1320
	HNOJL59R	HNOJM64R	<b>HNOJO55R</b>	HNOJP42R	HNOJQ22R	HNOKA20 HNOKA20R			HNOKD74R	HNOKG34 HNOKG34R							HNOKG69R	HNOKG71 HNOKG71R
	HNOJL59	HNOJM64	HNOJO55	HNOJP42	HNOJQ22	HNOKA20			HNOKD74	HNOKG34							HNOKG69	HNOKG71

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	T OCCC. 11 000#0.0	LU666: 11, SU358: 8,	LO/32. 6, LO/49. 3,	L0362: 5, L0//1: 4,	L0803: 4, L0528: 4,	L0664: 4, L0740: 4,	L0754: 4, L0599: 4,	L0769: 3, L0662: 3,	L0657: 3, L0659: 3,	L0663: 3, L0748: 3,	L0750: 3, L0757: 3,	L0758: 3, H0171: 2,	S0360: 2, H0574: 2,	H0251: 2, L0483: 2,	H0412: 2, H0509: 2,	L0770: 2, L0774: 2,	L0775: 2, L0665: 2,	H0690: 2, S0330: 2,	L0755: 2, L0731: 2,	L0595: 2, H0624: 1,	H0170: 1, H0685: 1,	H0656: 1, H0663: 1,	H0305: 1, H0589: 1,	S0356: 1, S0354: 1,	H0580: 1, S0132: 1,	S0300: 1, L0717: 1,	H0331: 1, H0013: 1,	H0108: 1, L0105: 1,	H0052: 1, H0546: 1,
Phe-59 to Gly-64,	Gly-/0 to Gly-84.	Thr-20 to Asp-2/,													-						•								
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H0123: 1, H0024: 1, H0373: 1, H0266: 1, H0687: 1, 1,0142: 1	H0628: 1, H0673: 1,	H0529: 1, L0763: 1,	<u>.</u>	L0546: 1, L0541: 1, L0768: 1, L0804: 1,	<b>,</b>	L0656: 1, L0526: 1,	L0367: 1, S0374: 1,	H0691: 1, H0519: 1,	H0682: 1, H0684: 1,	H0648: 1, L0602: 1,	S0454: 1, L0439: 1,	L0747: 1, L0779: 1,	L0780: 1, L0753: 1,	L0759: 1, S0434: 1,	L0591: 1, L0592: 1,	L0608: 1, L0366: 1,	S0194: 1 and H0542: 1.	S0410: 13, L0766: 5,	H0657: 4, S0422: 4,	H0547: 4, S0408: 3,		_	H0013: 2, H0581: 2,	L0471: 2, L0764: 2,	L0794: 2, L0666: 2,
		•																Asp-36 to Glu-46,	Gln-52 to Ile-61,	Leu-76 to Lys-87,	Asn-100 to Val-108,	Ser-120 to Gln-128.			
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L0663: 2, H0520: 2,	H0660: 2, H0436: 2,	L0740: 2, L0751: 2,	H0445: 2, S0436: 2,	S0400: 1, H0351: 1,	H0411: 1, H0632: 1,	H0575: 1, S0010: 1,	H0318: 1, H0596: 1,	T0110: 1, H0545: 1,	H0046: 1, H0567: 1,	H0373: 1, S6028: 1,	H0687: 1, H0031: 1,	H0553: 1, H0617: 1,	H0264: 1, S0386: 1,	S0440: 1, H0646: 1,	L0761: 1, L0646: 1,	L0771: 1, L0662: 1,	L0774: 1, L0805: 1,	L0653: 1, L0655: 1,	L0664: 1, H0519: 1,	H0521: 1, H0478: 1,	L0756: 1, L0752: 1,	L0759: 1, S0434: 1,	L0362: 1, S0192: 1 and	H0543: 1.				L0751: 9, H0556: 8,	µ1001/. 0, LV///. V,
			•																					•	Glu-1 to Pro-7,	Asp-25 to Leu-31,	Arg-54 to Lys-73.	Pro-7 to Gly-20.	
																									3498			3499	
	-																								2-370			57 - 284	
															,	,									1323			1324	
						-																			HNOKI89R			HNOKN33 HNOKN33R	
																							•		HNOKI89			HNOKN33	

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L0809: 5, L0741: 5,	L0754: 5, L0779: 5,	S0222: 4, L0769: 4,	L0659: 4, L0438: 4,	L0748: 4, H0208: 3,	H0052: 3, H0009: 3,	S0051: 3, T0010: 3,	H0521: 3, L0747: 3,	L0731: 3, L0758: 3,	S0408: 2, S0476: 2,	H0575: 2, H0253: 2,	H0545: 2, H0687: 2,	H0615: 2, H0181: 2,	H0135: 2, H0494: 2,	L5566: 2, L0666: 2,	L0664: 2, L0565: 2,	H0445: 2, S6024: 1,	S0134: 1, S0001: 1,	S0282: 1, S0400: 1,	H0459: 1, S0354: 1,	S0360: 1, H0580: 1,	S0007: 1, H0639: 1,	S0278: 1, H0441: 1,	H0370: 1, H0438: 1,	S0280: 1, H0036: 1,	H0618: 1, S0049: 1,	H0196: 1, H0235: 1,	H0597: 1, H0231: 1,	H0327: 1, H0566: 1,	H0024: 1, L0163: 1,
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L0756: 5, L0731: 5,	L0766: 4, L0748: 4,	S0212: 3, L0598: 3,	L0637: 3, L0761: 3,	L0664: 3, H0658: 3,	L0742: 3, L0439: 3,	L0747: 3, L0750: 3,	L0755: 3, L0758: 3,	L0604: 3, L0595: 3,	H0686: 2, L0002: 2,	S0376: 2, S0360: 2,	S6026: 2, H0351: 2,	S0222: 2, H0455: 2,	L0471: 2, H0014: 2,	T0006: 2, S0440: 2,	S0422: 2, L0667: 2,	L0641: 2, L0764: 2,	L0768: 2, L0774: 2,	L0776: 2, L0527: 2,	L0636: 2, L0783: 2,	S0374: 2, H0539: 2,	L0749: 2, L0596: 2,	L0589: 2, L0591: 2,	L0592: 2, L0599: 2,	L0594: 2, L0362: 2,	H0170: 1, S0218: 1,	H0657: 1, H0656: 1,	L0808: 1, S0400: 1,	H0402: 1, S0442: 1,	S0444: 1, S0408: 1,
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H0710: 1, H0579: 1, S0404: 1, S0406: 1, L0740: 1, L0754: 1, L0777: 1, L0759: 1, S0308: 1, L0605: 1, L0581: 1, L0608: 1, L0601: 1, H0543: 1, S0412: 1, S0424: 1 and H0506: 1.				H0624: 10, S0192: 8, S0022: 7, S0212: 5, H0031: 4, H0412: 4, S0028: 4, L0747: 4, S0194: 4, H0717: 3, H0427: 3, L0471: 3, S0250: 3, H0039: 3,
	Lys-1 to Glu-6, Pro-8 to Gln-21, Ser-43 to Glu-51, Val-61 to Gly-68, Arg-75 to Pro-87, Ser-92 to Phe-98.	Lys-13 to Ser-41, Lys-57 to Lys-66, Lys-89 to Lys-97, Lys-113 to Ala-118, Pro-131 to Ala-147, Ala-159 to Ala-169.	Lys-24 to Lys-31, Gly-132 to Glu-137.	
	3501	3502	3503	3504
	98 - 457	3 - 509	3 - 488	216 - 401
	1326	1327	1328	1329
	HNOKT24R	HNOKU52 HNOKU52R	HNOKV82R	HNOKZ03R
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H0644: 3, H0040: 3,	H0059: 3, H0144: 3,	H0547: 3, S0126: 3,	50037: 3, S0027: 3,	S0206: 3, L0439: 3,	H0713: 2, H0661: 2,	S0360: 2, H0208: 2,	S0045: 2, S0046: 2,	H0587: 2, H0486: 2,	H0575: 2, H0024: 2,	H0266: 2, H0622: 2,	40551: 2, S0210: 2,	H0520: 2, L0740: 2,	.0731: 2, L0605: 2,	H0170: 1, H0171: 1,	0040: 1, H0716: 1,	0294: 1, S0116: 1,	)420: 1, S0442: 1,	H0619: 1, S0300: 1,	H0592: 1, H0586: 1,	0485: 1, H0156: 1,	0590: 1, S0474: 1,	S0049: 1, H0596: 1,	H0544: 1, H0045: 1,	H0012: 1, H0620: 1,	H0014: 1, T0010: 1,	H0687: 1, S0003: 1,	H0615: 1, H0030: 1,	S0364: 1, S0366: 1,	H0090: 1, H0038: 1,
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H0272: 1, H0334: 1, S0150: 1, L0598: 1, L0767: 1, L0766: 1, L0791: 1, L0792: 1, L0438: 1, H0660: 1, S3014: 1, L0744: 1, L0754: 1, L0749: 1, L0757: 1, L0759: 1, L0591: 1, L0592: 1, S0011: 1, H0665: 1, H0667: 1 and H0506: 1.			S0412: 22, L0662: 19, L0777: 14, S0010: 11, S0222: 9, S6028: 9, L0750: 9, T0010: 8, L0659: 8, L0747: 8, L0756: 8, L0663: 7, L0439: 7, H0051: 6, L0518: 6, L0754: 6, L0752: 6, S0280: 5,
	Leu-24 to Thr-39, Gln-70 to Glu-81, Arg-86 to Leu-98, Glu-104 to Pro-110, Pro-134 to Arg-157, Val-159 to Asn-166.	Gly-1 to Ser-22, Pro-29 to Lys-70.	
	3505	3506	3507
	2 - 595	1 - 210	2 - 499
	1330	1331	1332
	HNORAS6 HNORAS6R	HNORB68R	HNORC14R
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H0575: 5, S0358: 4,	S0346: 4, L0753: 4,	H0170: 3, H0662: 3,	S0360: 3, H0427: 3,	L0471: 3, H0373: 3,	L0638: 3, L0637: 3,	L0764: 3, L0774: 3,	L0809: 3, L0666: 3,	S0310: 3, H0672: 3,	H0696: 3, L0731: 3,	H0506: 3, H0713: 2,	S0408: 2, H0411: 2,	H0455: 2, H0574: 2,	S0414: 2, H0486: 2,	H0036: 2, S0049: 2,	H0052: 2, H0327: 2,	H0687: 2, H0428: 2,	H0553: 2, H0644: 2,	H0038: 2, L0520: 2,	L0762: 2, L0770: 2,	L0653: 2, L0517: 2,	S0044: 2, L0442: 1,	H0583: 1, L0443: 1,	S0110: 1, S0282: 1,	S0400: 1, H0661: 1,	S0348: 1, S0356: 1,	S0444: 1, H0329: 1,	S0007: 1, H0619: 1,	S6026: 1, S0300: 1,	L0717: 1, S6022: 1,
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H0550: 1, H0592:	HOS8/: 1, HOS99: HOO43: 1, HOS90:	H0318: 1, H0309:	`	H0564: 1, H0123:	H0019: 1, S0050:	.0163: 1, S0388:	H0356: 1, H0328:	588: 1, H003	F0023: 1, H0031:	H0111: 1, H0169:	S0364: 1, L0455:	H0135: 1, H0163:	T0067: 1, T0069:	F0004: 1, H0100:	S0112: 1, L0370:	.0598: 1, L0769:	.0630: 1, L0800:	.0648: 1, L0363:	,0768: 1, L0649:	.0803: 1, L0775:	.0375: 1, L0651:	,0784: 1, L0523:	.0805: 1, L0776:	.0527: 1, L0657:	.0635: 1, L0783:	J0789: 1, L0532:	,0664: 1, H0691:	Γ0068: 1, S0148:
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	-				_							Ala-24 to Lys-29,	Lys-51 to Gly-62.																-
											3508	3509																	
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H0587: 1, H0333: 1, H0575: 1, H0706: 1, H0596: 1, H0546: 1, H0545: 1, H0086: 1, H0009: 1, H0284: 1, T0023: 1, L0143: 1, H0551: 1, H0494: 1, S0438: 1, S0002: 1, L0371: 1, L0770: 1,	L0372: 1, L0646: 1, L0553: 1, L0771: 1, L0774: 1, L0375: 1, L0806: 1, L0382: 1, H0703: 1, H0593: 1, H0682: 1, S0328: 1, S0380: 1, H0555: 1, S0027: 1, L0742: 1,	L0747: 1, L0779: 1, L0753: 1, H0445: 1 and H0543: 1. L0439: 6, L0794: 2, L0717: 1, H0068: 1, L0771: 1, L0646: 1, L0773: 1, L0662: 1, L0773: 1, L0663: 1, L0738: 1, L0748: 1, L0758: 1, L0592: 1 and
		Pro-19 to His-36, Glu-68 to Ala-86.
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					S0358: 7, L0750: 7 0360: 6, H0617: 5,	H0545:	.0776: 3, S0374: 3	L0755:	.0588: 3, H0422: 3	, H0549:	, H0632:	, H0424:	, H0551:	H0593:	, \$0330:	.0747: 2, L0749: 2,	L0757:	H0556:	, H0295:	H0657:	, H0662:	H0282:	, H0586:	, T0039:	H0004:	, H0309:	, T0110:
L0608: 1.			,		S0358: 7, L0750: 7 S0360: 6, H0617: 5,	S0126: 4, H0545: 3	L0776: 3,	L0748: 3,	L0588: 3,	H0685: 2, H0549:	H0550: 2, H0632: 2,	H0546: 2, H0424: 2,	H0163: 2, H0551: 2,	L0665: 2, H0593: 2,	H0660: 2, S0330: 2,	L0747: 2,	L0777: 2, L0757: 2	S0031: 2, H0556: 1	H0686: 1, H0295:	S0430: 1, H0657:	H0341: 1, H0662:	S0278: 1, H0282:	H0592: 1, H0586:	H0486: 1,	T0109: 1, H0004:	H0581: 1, H0309:	H0596: 1, T0110:
		Thr-2 to Phe-7,	Gly-18 to Arg-23, Asp-27 to Glu-35.	Gly-1 to Thr-10.					,·		<u> </u>		•									- <del></del>					
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	3511	3512	<del></del>	3513	3514								,						_								
	1 - 168	2 - 334		1-636	3 - 680																						;
	1336	1337		1338	1339																						
	HNORF04R	HNORF05R		HNORF13R	HNORH03 HNORH03R																						
		HNORF05		HNORF13	HNORH03								•														

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H0231: 1, H0123: 1, H0620: 1, H0083: 1, H0594: 1, H0687: 1, L0483: 1, H0644: 1, H0361: 1, H0087: 1, H0494: 1, S0306: 1, S0440: 1, H0509: 1, L0770: 1, L0769: 1, L0771: 1, L0769: 1, L0771: 1, L0773: 1, L0877: 1, L0656: 1, L0807: 1, L0656: 1, H0659: 1, L0344: 1, H0691: 1, H0690: 1, H0691: 1, H0670: 1, S0216: 1, H0672: 1, S0328: 1, S0378: 1, H0555: 1, S0314: 1, H0555: 1, L0741: 1,	S0192: 1, 20390: 1, S0192: 1, S0194: 1, S0460: 1 and H0352: 1.	
	,	Arg-13 to Arg-21, Asp-26 to Pro-35,
		3515
		1 - 498
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		HNORH05 HNORH05R
		HNORH05

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					•					•		L0742: 10, H0144: 6,	H0265: 5, S0116: 4,	S0046: 4, S0222: 4,	H0556: 3, H0250: 3,	H0052: 3, S0027: 3,	L0595: 3, S0212: 2,	H0306: 2, S0358: 2,	H0013: 2, H0618: 2,	H0124: 2, H0100: 2,	S0053: 2, H0660: 2,	S0330: 2, S3012: 2,	L0748: 2, L0439: 2,	L0745: 2, L0757: 2,	H0445: 2, S0342: 1,	H0484: 1, H0638: 1,	S0007: 1, H0393: 1,	H0437: 1, H0549: 1,	H0438: 1, H0486: 1,
Glu-58 to Gly-65,	Ser-74 to Pro-82,	Gln-107 to Asp-115,	Asp-128 to Asn-	137,	Gln-145 to Arg-154,	Gln-161 to Ser-166.	Ala-19 to Ser-27,	Ser-41 to Val-53.	Asn-95 to Leu-100.	Pro-3 to Ile-12,	Asn-20 to Glu-25.	Ile-121 to Val-129,	Ala-136 to Glu-142. H0265: 5, S0116: 4,														<u> </u>		
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							20 - 244		3 - 377	144 - 377		3 - 530						-										·	
							1341		1342	1343		1344																	
						•	HNORH35R		HNORJ08R	HNTRB70R		HOCMA02 HOCMA02R	∢	•		-													
							HNORH35		HNORJ08	HNTRB70		HOCMA02												•					

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H0253: 1, H0390: 1, H0544: 1, H0046: 1.	H0009: 1, H0023: 1,	N0007: 1, T0010: 1,	H0188: 1, H0687: 1,	S0003: 1, H0030: 1,	S0364: 1, L0455: 1,	S0366: 1, H0090: 1,	H0038: 1, H0551: 1,	H0412: 1, H0059: 1,	S0038: 1, H0130: 1,	H0641: 1, S0142: 1,	S0002: 1, H0517: 1,	.0643: 1, L0771: 1,	.0794: 1, L0766: 1,	.0775: 1, L0654: 1,	655: 1, L0352: 1,	S0008: 1, H0435: 1,	H0659: 1, H0658: 1,	H0672: 1, H0521: 1,	H0522: 1, S0044: 1,	576: 1, L0779: 1,	.0605: 1, L0593: 1,	S0026: 1, H0667: 1,	S0276: 1, S0196: 1,	H0542: 1, H0423: 1 and	H0506: 1.	L0439: 17, L0438: 6,	H0424: 5, S0007: 4,	JU/69: 4, HUZ13: 3,
)H	H	Ž	H	0 <u>S</u>	<u>S</u>	<u>  So</u>	H	<u>H</u>	0S	)H	<u>so</u>	<u> </u>	01	<u>01</u>	<u> </u>	80	)H	)H	<u>H</u>	)H	<u> </u>	<u>S</u>	0S	)H	HC	Asn-39 to Gln-44, L	Leu-47 to Asp-55. HC	מיוו
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L0776: 3, H0660: 3,	H0309: 2, S0051: 2,	L0789: 2, L0663: 2,	L0750: 2, L0757: 2,	L0759: 2, S0196: 2,	S0040: 1, S0001: 1,	H0662: 1, H0402: 1,	L0005: 1, S0356: 1,	H0052: 1, H0596: 1,	H0009: 1, T0010: 1,	L0483: 1, T0006: 1,	H0033: 1, H0031: 1,	H0169: 1, H0634: 1,	H0538: 1, L0638: 1,	L0643: 1, L0764: 1,	L0768: 1, L0803: 1,	L0804: 1, L0375: 1,	L0606: 1, L0659: 1,	L0791: 1, L0352: 1,	H0547: 1, L0602: 1,	H0436: 1, L0742: 1,	L0749: 1, L0777: 1,	L0752: 1, L0731: 1,	L0758: 1, S0394: 1,	L0596: 1 and S0412: 1.				
							-			-				-												Lys-18 to Tyr-31,	Ile-45 to Asp-50, Trn-78 to Ser-88	416 12 22 22,
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		L0748: 26, H0046: 18,	H0510: 7, H0673: 7, I 0803: 7 H0169: 6	H0144: 6. L0731: 4.	H0574: 3, H0521: 3,	H0370: 2, H0615: 2,	H0032: 2, T0067: 2,	H0509: 2, S0210: 2,	L0776: 2, L0749: 2,	L0750: 2, L0595: 2,	H0170: 1, H0656: 1,	H0341: 1, H0151: 1,	S0046: 1, S0132: 1,	H0619: 1, H0351: 1,	S0222: 1, H0497: 1,	H0632: 1, H0486: 1,	H0156: 1, H0575: 1,	H0052: 1, H0596: 1,	H0057: 1, H0014: 1,	H0355: 1, H0286: 1,	H0622: 1, H0165: 1,	H0674: 1, H0212: 1,	H0038: 1, H0379: 1,	H0059: 1, T0041: 1,	S0448: 1, H0132: 1,	S0150: 1, L0646: 1,	L0774: 1, L0527: 1,	L0657: 1, L0809: 1,
Pro-102 to Pro-109.		Glu-1 to Ile-6,	Asp-125 to Pro-131. H0510: 7, H0673: 7, I 10803: 7, H0169: 6									•	-					٠								•		
	3523	3524														, "				,								
	382 - 588	3 - 395						-													·	-						
	1348	1349											-			-	-			•				•				
	HOCMF06 HOCMF06R	HOCMF27R																										
	HOCMF06	HOCMF27																										

L0519: 1, L0788: 1, L0789: 1, L0666: 1, H0520: 1, H0519: 1, H0658: 1, H0660: 1, S0152: 1, S0013: 1, H0696: 1, S0048: 1, S0174: 1, S0146: 1, H0479: 1, L0748: 1, L0777: 1, L0758: 1, L0593: 1 and H0136: 1.	H0687: 1, L0663: 1 and H0660: 1.	L0794: 7, L0666: 4, L0750: 3, L0664: 2, L0665: 2, H0670: 2, H0660: 2, L0439: 2, L0751: 2, L0756: 2, H0650: 1, H0150: 1, L0769: 1, L0803: 1, L0378: 1, L0657: 1, H0684: 1 and H0555: 1.	H0657: 13, S0360: 12, S0026: 7, H0547: 6, H0171: 4, S0356: 4, H0551: 4, H0560: 4, H0509: 4, H0689: 4, H0543: 4, S0358: 3,
	Gly-2 to Lys-9, Arg-21 to Glu-32, Pro-58 to Lys-64, Thr-73 to Glu-83.	Lys-1 to Thr-6, Ala-26 to Gly-36, Ser-47 to Gln-55, Leu-72 to Cys-83.	Gly-1 to Asn-9, Glu-31 to Val-39.
	3525	3526	3527
	49 - 354	37 - 285	1 - 456
	1350	1351	1352
	HOCMF50 HOCMF50RB	HOCMF54R	носмд37к
	HOCMF50	HOCMF34	HOCMG37

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H0318: 3, S0440: 3,	H0529: 3, H0435: 3,	H0665: 3, H0170: 2,	H0265: 2, H0556: 2,	H0222: 2, S0376: 2,	L0717: 2, H0642: 2,	H0574: 2, H0575: 2,	H0596: 2, S0003: 2,	H0615: 2, H0428: 2,	H0617: 2, H0413: 2,	H0494: 2, H0646: 2,	L0369: 2, H0144: 2,	H0520: 2, H0519: 2,	H0690: 2, H0658: 2,	H0660: 2, H0672: 2,	L0362: 2, H0542: 2,	H0423: 2, H0686: 1,	H0650: 1, H0656: 1,	S0212: 1, S0029: 1,	H0483: 1, H0663: 1,	H0664: 1, H0638: 1,	S0420: 1, H0580: 1,	S0278: 1, H0261: 1,	H0438: 1, H0586: 1,	T0060: 1, H0069: 1,	S0010: 1, H0263: 1,	H0327: 1, H0546: 1,	H0014: 1, H0083: 1,	H0510: 1, S6028: 1,	H0266: 1, S0214: 1,
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H0553: 1, H0068: 1,	H0090: 1, H0040: 1,	H0634: 1, T0067: 1,	H0079: 1, H0561: 1,	L0065: 1, H0130: 1,	H0647: 1, S0422: 1,	L0772: 1, L0648: 1,	L0662: 1, L0768: 1,	L0375: 1, L0657: 1,	L0659: 1, L0518: 1,	S0310: 1, L0438: 1,	H0670: 1, H0648: 1,	S0380: 1, H0521: 1,	H0436: 1, L0439: 1,	L0749: 1, L0756: 1,	L0779: 1, L0731: 1,	H0343: 1, L0596: 1,	L0588: 1, L0590: 1,	L0591: 1, L0603: 1,	H0653: 1, S0196: 1,	H0422: 1, S0424: 1,	S0384: 1 and H0506: 1.							L0748: 2, S6028: 1,	Н0682: 1, Н0660: 1,
																				,			Lys-23 to Ser-29,	Tyr-55 to His-62,	Tyr-65 to Leu-71.	Glu-32 to Ser-38.	Gly-1 to Arg-9.		
																					:	3528	3529			3530	3531	3532	
		-																				49 - 348	1 - 510			14 - 400	3 - 707	2 - 289	
																						1353	1354			1355	1356	1357	
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S0378: 1 and H0506: 1.			H0295: 8, H0617: 7,	L0665: 7, H0435: 7,	H0592: 6, H0494: 6,	L0439: 6, L0751: 6,	S0360: 5, S0046: 4,	H0587: 4, H0012: 4,	H0264: 4, L0662: 4,	S0406: 4, H0586: 3,	H0620: 3, H0031: 3,	H0551: 3, S0440: 3,	S0002: 3, L0763: 3,	L0648: 3, L0649: 3,	L0774: 3, L0659: 3,	H0520: 3, H0547: 3,	H0689: 3, H0660: 3,	S0328: 3, S0330: 3,	L0748: 3, L0754: 3,	L0750: 3, H0294: 2,	H0650: 2, H0341: 2,	S0356: 2, S0132: 2,	H0370: 2, H0333: 2,	H0643: 2, L0623: 2,	H0706: 2, H0081: 2,	H0039: 2, H0553: 2,	H0181: 2, H0068: 2,	H0135: 2, H0040: 2,
	Thr-19 to Cys-25, Lys-133 to Ala-138.									-							-					-						
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	130 - 594	3 - 425	3 - 500									_															,	
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18	9	080	770	080	051	190	074	943	₹	90	335	241	1055	90	1057	[90]	H0234:	101	012	52	54	9	[03]	010	8	S0210:	8	770	9/0
, L	7,	2, L	7,	7,	.0664: 2, H0519: 2,	<b>2</b> , H	2, 1	Š	2, H	1, H	., S	S,	1, H	1, H	1, H	1, H	1, H	I, H	H,	1, H	1, H	1, T	1, H	1, H	Ĺ,	1, S	, L	ָר ה	l, L
<u>;</u>	7:2	4	9	7:73	4	32:	22	ä	11.	35:	<u>3</u>	6: ]	1:	55:	31:	ö	35	3	$\exists$	<del>9</del>	33	3	30.	.66	96: ]	<u>ę</u>	6: ]	.:	.9
H0646: 2, L0640: 2,	.0637: 2, L0641: 2,	L0764: 2, L0804: 2,	80	990	8	1068	H0672: 2, L0744: 2,	7,00	H0677: 2, H0483: 1	H0305: 1, H0638: 1	<u>\$</u>	037	H0411: 1, H0550: 1,	₩ 100 100 100 100 100 100 100 100 100 10	101	H0590: 1, H0618:	H0052: 1,	H0597: 1, H0121:	.0041: 1, H0123:	H0246: 1, H0290:	H0292: 1, H0428:	H0622: 1, T0023:	H0030: 1, H0316:	H0059: 1, H0100:	S0306: 1, T0090:	H0649: 1,	S0426: 1, L0646:	J0765: 1, L0771:	.0626: 1, L0768:
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L0364: 1, L0766: 1, L0375: 1, L0651: 1, L0378: 1, L0653: 1, L0655: 1, L0558: 1, L0635: 1, L0518: 1, L0383: 1, L0792: 1, L0663: 1, S0046: 1, H0696: 1, S0044: 1, S3014: 1, L0743: 1, L0752: 1, L0755: 1, L0731: 1, L0759: 1, H0216: 1, H0543: 1, S0424: 1 and H0506: 1.	L0743: 9, H0551: 5, H0645: 4, H0050: 4, S0250: 4, S0192: 4, H0624: 3, T0039: 3, H0087: 3, H0547: 3, L0439: 3, H0294: 2, H0370: 2, H0024: 2, H0620: 2, H0024: 2, H0622: 2, H0424: 2, L0662: 2, L0776: 2, S0028: 2, L0776: 2, S0028: 2, L0776: 1, H0484: 1, H0483: 1, S0360: 1, H0619: 1, H0550: 1, H0586: 1,
	Pro-84 to Pro-91.
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	HOCMS87R
	HOCMS87

H0599: 1, H0575: 1, H0122: 1, H0706: 1, H0421: 1, S0049: 1, H0086: 1, H0123: 1, H0687: 1, H0012: 1, H0604: 1, S0386: 1, L0772: 1, L0648: 1, L0375: 1, L0774: 1, L0532: 1, L0769: 1, H0684: 1, H0660: 1, S0152: 1, S0027: 1, L0777: 1, L0749: 1, L0777: 1, L0777: 1, L0779: 1, L0777: 1,							L0777: 14, L0731: 10,	L0740: 8, L0439: 7,	LU/54: 6, 50222: 3, H0144: 5, L0745: 5,
		Glu-1 to Gly-6, Leu-27 to Val-40,		Gly-17 to Arg-42, Phe-56 to Ser-66.		Lys-1 to His-6.	Lys-7 to Glu-13,	Gly-39 to Thr-44,	Glu-98 to Asn-105.
	3537	3538	3539	3540	3541	3542	3543		
	86 - 235	76 - 354	2-466	314 - 511	394-2	520 - 789	3 - 488		
	1362	1363	1364	1365	1366	1367	1368		
	HOCMX29R		HOCMY61R	HOCMY79 HOCMY79R	HOCOC38R	HOCOC41 HOCOC41R	HOCOC94R		
	HOCMX29	HOCMY53	HOCMY61	HOCMY79	HOCOC38	_	HOCOC94		

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H0013: 4, L0770: 4,	S0380: 4, L0748: 4,	L0758: 4, H0171: 3,	H0599: 3, S0010: 3,	H0052: 3, S0003: 3,	H0615: 3, L0598: 3,	L0666: 3, L0665: 3,	H0519: 3, H0658: 3,	L0749: 3, H0255: 2,	S0376: 2, S0444: 2,	S0360: 2, H0632: 2,	H0327: 2, S0214: 2,	H0038: 2, H0040: 2,	L0769: 2, L0638: 2,	L0662: 2, L0794: 2,	L0775: 2, L0776: 2,	S0330:	L0744: 2, L0750: 2,	L0757:	L0362: 2, L0361: 2,	H0170: 1, H0685: 1,	S0040: 1, S0342: 1,	H0716: 1, S0001: 1,	S0282: 1, H0662: 1,	S0356: 1, S0358: 1,	H0675: 1, S0408: 1,	H0580: 1, S0300: 1,	H0406: 1, S0278: 1,	H0550: 1, H0441: 1,	H0431: 1, H0600: 1,
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H0331: 1, H0574: 1,	70039: 1, H0156: 1,		1, H0596: 1,	1, H0150: 1,	H0009: 1, H0569: 1,	1, H0012: 1,	H0051: 1, S0051: 1,	70010: 1, H0266: 1,	1, S0022: 1,	1, H0119: 1,		HO617: 1, H0316: 1,	1, H0412: 1,	H0413: 1, H0623: 1,	H0494: 1, S0450: 1,	H0130: 1, S0142: 1,	N: 1, L0771: 1,	.0766: 1, L0803: 1,	.0804: 1, L0774: 1,	1, L0805: 1,	1, L0653: 1,	1, L0606: 1,	.0527: 1, L0783: 1,	1, H0547: 1,	1, H0670: 1,	-	1, H0696: 1,	H0478: 1, S0432: 1,	1, S0028: 1,
H0331:	T0039:	80665: 1	H0263:	H0546:	H0006:	L0471: 1	H0051:	T0010:	S0250: 1	H0428:	H0553:	H0617:	H0634: 1	H0413:	H0494:	H0130:	UNKWN: 1	T0766:	L0804:	L0784: 1	L0652:	L0655: 1	L0527:	L0663: 1	H0689:	H0648:	H0521: 1	H0478:	H0540:
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S0206: 1, L0746: 1, L0747: 1, S0031: 1, L0689: 1, S0436: 1, S0194: 1, S0276: 1,	S0412: 1, H0306: 1 and H0352: 1.																H0521: 5, S0040: 3,	H0039: 3, H0657: 2,	H0341: 2, H0553: 2,	S0210: 2, H0593: 2,	H0445: 2, L0596: 2,	S0212: 1, H0661: 1,	S0418: 1, S0354: 1,	S0358: 1, H0592: 1,	Т0039: 1, Н0635: 1,
		Pro-6 to Arg-12,	Gln-17 to Leu-22,	His-25 to Asp-32,	Gly-62 to Lys-69.	Thr-16 to Phe-28,	Cys-58 to Ser-69,	Glu-91 to Glu-99,	Lys-113 to Gln-119.	Gln-37 to Trp-44,	Arg-47 to Phe-57,	Phe-67 to Ala-83,	Pro-94 to Gly-99,	Lys-109 to Cys-116,	Arg-130 to Ser-137.		Glu-1 to Val-9.								
		3544				3545				3546				-		3547	3548								
	•	221 - 502				2 - 409				9 - 539						2 - 382	46 - 492								
		1369				1370				1371						1372	1373								
		HOCOF35R				HOCOF50R				HOCOO62 HOCOO62R						HOCOP52R									
		HOCOF35				HOCOF50				HOC0062						HOCOP52	HOCOQ13								

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H0427: 1, H0544: 1,	H0546: 1, H0545: 1,	H0046: 1, L0471: 1,	H0083: 1, S6028: 1,	S0338: 1, S0003: 1,	H0068: 1, H0038: 1,	H0063: 1, H0551: 1,	H0100: 1, T0042: 1,	H0494: 1, H0561: 1,	H0646: 1, L0800: 1,	L0649: 1, L0654: 1,	L0666: 1, H0660: 1,	H0518: 1, S0152: 1,	S0146: 1, H0555: 1,	S0037: 1, S0028: 1,	L0605: 1, L0599: 1,	L0603: 1, H0667: 1,	H0542: 1, H0543: 1,	S0424: 1 and H0506: 1.						H0046: 5, H0144: 5,	L0665: 4, L0662: 3,	L0766: 3, L0750: 3,	L0779: 3, L0759: 3,	H0170: 2, S0376: 2,	H0329: 2, H0427: 2,
											•										Lys-9 to Asp-16,	1 nr-2/ to 1 rp-30.		3553 Pro-38 to Gln-43.					
									,				_			-			3549	3550	3551		3552	3553					
		-			•		٠												448 - 639	2 - 412	107 - 268		1 - 573	1 - 183					
																			1374	1375	1376		1377	1378					
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																			HOCO093	HOCOT70	HOCOV29		HOCPF69	HOCPG38					

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.0770: 2, L0529: 2,	.0439: 2, L0740: 2,	.0751: 2, L0758: 2,	S0242: 2, H0223: 1,	H0685: 1, S0116: 1,	2: 1, H0662: 1,	S6022: 1, H0574: 1,	6: 1, H0013: 1,	H0098: 1, H0575: 1,	HO581: 1, H0052: 1,	.0471: 1, H0024: 1,	H0510: 1, H0594: 1,	H0328: 1, H0169: 1,	H0598: 1, H0163: 1,	10646: 1, L0637: 1,	3: 1, L0794: 1,	.0804: 1, L0775: 1,	3: 1, L0659: 1,	•	9: 1, L0544: 1,	7: 1, L0666: 1,	.0664: 1, S0374: 1,	3: 1, H0519: 1,	H0670: 1, H0660: 1,	H0648: 1, S0378: 1,	H0696: 1, S0432: 1,	J0777: 1, L0755: 1,	S0308: 1, L0591: 1,	.0608: 1, S0192: 1,	S0194: 1, H0543: 1,
1,077	L0439	[5/07]	S0242	H068	S0282	S6022	H048	600H	H058	L047]	H051	H032	H059	H064	L0768: 1	7080T	L0653: 1	L0526: 1	L0809: 1	L0647: 1	7990T	L0438: 1	1400H	H064	690H	17777	S0308	T0907	S0194
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H0423: 1 and S0412: 1.		L0731: 7, S0358: 6,	L0439: 6, L0769: 5,	L0809: 4, L0747: 4,	S0354: 3, H0580: 3,	H0438: 3, H0581: 3,	L0770: 3, L0766: 3,	L0774: 3, L0775: 3,	L0740: 3, L0749: 3,	L0758: 3, L0596: 3,	H0677: 3, H0392: 2,	H0457: 2, L0471: 2,	H0510: 2, H0169: 2,	H0551: 2, T0042: 2,	H0494: 2, S0438: 2,	L0761: 2, L0657: 2,	L0783: 2, L0647: 2,	L0666: 2, L0565: 2,	L0438: 2, H0521: 2,	L0748: 2, L0750: 2,	L0779: 2, L0752: 2,	L0759: 2, L0588: 2,	L0605: 2, L0592: 2,	L0581: 2, L0615: 1,	S0116: 1, H0638: 1,	S0418: 1, S0444: 1,	S0360: 1, S0222: 1,	H0586: 1, H0427: 1,	H0618: 1, H0390: 1,
		Leu-9 to Val-14,	Glu-41 to Ala-49.			-	•	•																					
	3554	3555	•	:																									
	39 - 185	2 - 217					,														•							,	
	1379	1380																											
	HOCPG48R	HOCPH40 HOCPH40R															•												
	HOCPG48	HOCPH40										•														•			

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H0318: 1, H0007: 1,	H0052: 1, H0544: 1,	H0024: 1, H0014: 1,	H0083: 1, H0375: 1,	S6028: 1, H0266: 1,	H0398: 1, L0055: 1,	H0135: 1, H0087: 1,	S0344: 1, S0426: 1,	H0529: 1, L0763: 1,	L0639: 1, L0374: 1,	L0764: 1, L0662: 1,	L0768: 1, L0803: 1,	L0378: 1, L0776: 1,	L0659: 1, L0518: 1,	L0663: 1, L0665: 1,	S0374: 1, H0547: 1,	H0519: 1, H0593: 1,	H0690: 1, H0682: 1,	H0660: 1, S0328: 1,	H0539: 1, H0555: 1,	L0743: 1, L0777: 1,	H0445: 1, L0362: 1,	S0242: 1 and H0543: 1.							
•				-	•																		Gly-18 to Asp-23,	Gln-34 to Gly-40,	Asp-81 to Lys-87.		Asp-43 to Gly-48.		
					•									•									3556			3557	3558	3559	3560
					•																		3 - 281		!	3 - 245	2 - 232	285 - 530	2 - 136
		٠										_											1381			1382	1383	1384	1385
																							HOCPH44R			HOCP128R	<b>HOCPI53R</b>	HOCPL59R	HOCPM39R
																							HOCPH44			HOCPI28	HOCPI53	HOCPL59	HOCPM39

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L0747: 10, L0805: 6,	S0358: 4, L0775: 4,	L0655: 4, L0749: 4,	H0656: 3, S0440: 3,	L0803: 3, L0776: 3,	L0789: 3, H0650: 2,	H0662: 2, L0471: 2,	H0620: 2, H0169: 2,	H0616: 2, L0770: 2,	L0769: 2, L0761: 2,	L0800: 2, L0794: 2,	L0804: 2, L0806: 2,	L0657: 2, L0809: 2,	L0665: 2, H0547: 2,	S0126: 2, H0660: 2,	H0648: 2, H0521: 2,	S0406: 2, L0748: 2,	L0750: 2, L0758: 2,	L0581: 2, T0002: 1,	H0686: 1, H0657: 1,	S0418: 1, S0420: 1,	S0356: 1, S0442: 1,	S0444: 1, H0574: 1,	H0559: 1, H0486: 1,	L0586: 1, T0114: 1,	H0250: 1, H0318: 1,	H0014: 1, H0051: 1,	H0266: 1, H0292: 1,	H0428: 1, H0031: 1,	H0673: 1, H0163: 1,
3561 Ala-2 to Ala-9.				· ·												•													
3561	,		:	·																									
3 - 275	•			•																									
1386																													
HOCPP65 HOCPP65R					•																								
HOCPP65																													

H0591: 1, H0494: 1, L0640: 1, L0763: 1, L0772: 1, L0773: 1, L0521: 1, L0773: 1, L0774: 1, L0375: 1, L0384: 1, L0375: 1, H0144: 1, H0703: 1, H0690: 1, H0593: 1, H0658: 1, S0328: 1, S0152: 1, L0744: 1, L0779: 1, L0744: 1, L0755: 1, L0731: 1, L0755: 1, L0731: 1, H0136: 1, H0542: 1 and			L0754: 4, H0290: 2, L0761: 2, L0794: 2, L0766: 2, L0793: 2,	L0731: 2, L0758: 2, L0759: 2, L0594: 2,	H0713: 1, H0402: 1, S0418· 1_S0354· 1	H0580: 1, L0717: 1, H0550: 1, H0333: 1,
	Glu-16 to Lys-21, Asn-62 to Arg-68, Asp-94 to Thr-102, Gly-161 to Leu-170.		Ser-9 to Glu-16, Phe-49 to Tyr-58, Asn-102 to Gly-110.			
	3562	3563	3564			·
	3 - 587	26 - 358	2 - 394			
	1387	1388	1389			
	HOCPP80R	HOĆPQ24R	HOCPQ59R			
	HOCPP80	НОСРО24	носро59			

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H0643: 1, H0574: 1, S0280: 1, H0618: 1, H0052: 1, H0546: 1, H0545: 1, H0104: 1, H0033: 1, H0100: 1, L5566: 1, L0773: 1, L0821: 1, L0803: 1, L0804: 1, L0807: 1, H0660: 1, H0521: 1, S0404: 1, S0406: 1, H0436: 1, L0779: 1,							L0748: 9, H0556: 8,	.0769: 5, L0766: 4,	6: 4, H0547: 4,	H0521: 4, L0750: 4,	L0752: 4, L0758: 4,	4: 4, H0542: 4,	H0657: 3, S0418: 3,	6: 3, H0587: 3,	H0013: 3, H0052: 3,
H064 S028 H005 H005 H003 L055 L078 L078 H066 S040 H064	Asp-24 to Leu-31, Ile-123 to Gln-128.		Ser-11 to Trp-18,	Glu-43 to Leu-50,	Fre-39 to Arg-120, Ser-136 to Tyr-144,	Glu-154 to Cys-163.	Gln-14 to Lys-19, L07	Glu-79 to Gly-87. L076	L077	H052	L075	8043	H065	H058	H001
	3565	3566	3567				3568								
	2 - 427	2 - 487	3 - 536				1 - 588			•					
	1390	1391	1392				1393								
	носроев	HOCPQ75R	HOCPR01R				HOCPR29R								
	НОСРQ66	HOCPQ75	HOCPR01				HOCPR29								

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H0083.3 H0038.3	2, IIOOOO. 2,	HU034: 3, HU494: 3,	S0440: 3, L0774: 3,	.0775: 3, L0659: 3,	3, L0744: 3,	L0749: 3, L0755: 3,	.0759: 3, H0543: 3,	50358: 2, S0476: 2,	H0156: 2, H0194: 2,	.0471: 2, H0014: 2,	H0201: 2, S0003: 2,	T0023: 2, H0135: 2,	H0551: 2, S0142: 2,	2, L0662: 2,	.0767: 2, L0381: 2,	.0383: 2, L0666: 2,	.0665: 2, H0658: 2,	H0660: 2, S0044: 2,	2, L0751: 2,	L0754: 2, L0596: 2,	2, L0591: 2,	.0592: 2, L.0595: 2,	.0601: 2, H0423: 2,	S0040: 1, S0134: 1,	S0298: 1, H0661: 1,	H0664: 1, H0125: 1,	S0420: 1, S0356: 1,	S0354: 1, S0444: 1,	S0360: 1, H0619: 1,	H0393: 1, H0549: 1,
110083	TOCOL	H0034:	<u>S0440:</u>	L0775:	H0522:	L0749:	1.0759:	S0358:	H0156:	L0471:	H0201:	T0023:	H0551:	L0372:	1.0767:	L0383:	L0665:	H0660:	S3014:	L0754:	L0588: 2, 1	L0592:	L0601:	S0040:	S0298:	H0664:	S0420:	S0354:	S0360:	H0393:
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H0550: 1, S0222:	S6014: 1, H0431:	H0592: 1, H0574:	F0039: 1, T0114:	H0075: 1, H0427:	H0590: 1, H0004:	H0318: 1, H0581:	H0251: 1, H0596:	F0115: 1, H0009:	H0081: 1, H0050:	H0024: 1, T0010:	H0687: 1, H0288:		H0622: 1, L0055:	H0032: 1, H0090:	H0591: 1, H0040:	H0063: 1, H0413:	F0069: 1, S0438:	H0538: 1, S0210:	S0426: 1, H0529:	L0520: 1, L0762: 1	•	L0374: 1, L0764:	•		•	•	.0382: 1, L0809:	L0788: 1, L0663: 1,	S0052: 1, S0374:
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H0691: 1, H0682: 1, H0435: 1, H0659: 1, S0328: 1, S0330: 1, S0152: 1, H0436: 1, L0611: 1, S0027: 1, S0028: 1, L0747: 1, L0779: 1, L0780: 1, L0731: 1, L0608: 1, S0026: 1, H0653: 1, S0192: 1, S0194: 1,			L0766: 2, H0660: 2,	L0748: 2, L0740: 2,	H0328: 1, L0769: 1,	L0651: 1, L0653: 1,	H0593: 1 and S0126: 1.									H0620: 2, S0022: 2,
		Glu-22 to Glu-30, Lys-42 to Glu-51.	Pro-7 to Ser-36,	Cys-49 to Pro-57,	Pro-85 to Ala-91,	Gly-97 to Pro-109.				Tyr-1 to Gly-39, Ala-41 to Tyr-67.			Ser-49 to Asp-56;	Arg-64 to Ile-71,	Pro-80 to Ile-89.	His-10 to Asp-20,
	3569	3570	3571					3572	3573	3574	3575	3576	3577			3578
	168 - 335	62 - 256	3 - 440					1 - 279	1 - 102	3 - 203	1 - 225	333 - 560	3 - 269			339 - 599
·	1394	1395	1396					1397	1398	1399	1400	1401	1402			1403
:	HOCPR33R	HOCPR53R	HOCPR55R					HOCPR77R	HOCPR82R	HOCPS35R	HOCPU03R	HOCPU30R	HOCPU68R	_		HOCPV29R
	HOCPR33	HOCPR53	HOCPR55					HOCPR77	HOCPR82	HOCPS35	HOCPU03	HOCPU30	HOCPU68			HOCPV29

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L0438: 2, T0002: 1, H0393: 1, H0370: 1,	H0050: 1, H0373: 1,	S0036: 1, H0551: 1,	H0059: 1, S0150: 1,	L0662: 1, S0126: 1,	H0435: 1, H0660: 1,	S0044: 1 and H0694: 1.	L0803: 7, L0439: 5,	L0809: 4, L0749: 4,	L0776: 3, H0520: 3,	L0748: 3, L0750: 3,	H0543: 3, S0440: 2,	L0794: 2, L0804: 2,	L0438: 2, H0547: 2,	H0660: 2, S0406: 2,	L0743: 2, L0777: 2,	L0759: 2, H0556: 1,	H0656: 1, S0358: 1,	S0360: 1, H0637: 1,	H0580: 1, H0741: 1,	H0733: 1, H0619: 1,	H0415: 1, H0600: 1,	H0587: 1, H0486: 1,	H0013: 1, H0427: 1,	S0474: 1, H0581: 1,	H0263: 1, H0457: 1,	H0615: 1, H0428: 1,	H0644: 1, H0032: 1,
Asn-27 to Gly-33.																				· _							
				,	-		3579																		•		
	,						1 - 390					•													•	•	
					-		1404																				
		•					HOCPV67 HOCPV67R					,															
							HOCPV67					•															

S0036: 1, H0591: 1, H0634: 1, H0264: 1, S0438: 1, S0422: 1, S0002: 1, L0520: 1, L0766: 1, L0649: 1, L0650: 1, L0774: 1, L0775: 1, L0655: 1, L0790: 1, L0666: 1, H0670: 1, H0723: 1, H0670: 1, H0631: 1, S0013: 1, H0631: 1, S0206: 1, L0756: 1, L0731: 1, L0608: 1,	L0752: 19, L0747: 12, L0608: 5, L0774: 4, L0805: 4, L0438: 4, L0740: 4, S0210: 3, L0600: 3, S0358: 2, S0222: 2, H0068: 2, H0040: 2, H0413: 2, L0770: 2, L0769: 2, L0772: 2, L0769: 2, L0772: 2, L0769: 2, S0328: 2, L0439: 2, L0745: 2, L0755: 2,
	Ile-53 to Trp-63, Ala-80 to Gly-89, Arg-134 to Gln-139.
	3581
	3 - 209 2 - 502
	1406
	HOCPW72 HOCPW72R
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H0170: 1, H0341: 1,	H0483: 1, S0420: 1,	S0410: 1, S0300: 1,	H0411: 1, H0549: 1,	L0622: 1, H0013: 1,	H0156: 1, S0010: 1,	H0052: 1, H0545: 1,	N0006: 1, L0471: 1,	H0012: 1, S0336: 1,	H0428: 1, T0006: 1,	H0606: 1, H0674: 1,	L0455: 1, S0036: 1,	H0038: 1, H0063: 1,	H0494: 1, H0560: 1,	L0520: 1, L0762: 1,	L0521: 1, L0662: 1,	L0767: 1, L0803: 1,	L0653: 1, L0659: 1,	L0790: 1, L0791: 1,	L0666: 1, H0144: 1,	S0374: 1, H0689: 1,	H0690: 1, H0659: 1,	H0660: 1, H0648: 1,	S0378: 1, H0134: 1,	H0214: 1, L0749: 1,	L0731: 1, L0361: 1,	S0106: 1, S0011: 1,	H0653: 1, S0192: 1,	S0242: 1, S0194: 1 and	H0422: 1.
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	H0046: 9, L0777: 3, S0376: 2, H0050: 2,	S0344: 2, S0126: 2,	Tyr-196 to Gly-205. H0670: 2, S0152: 2,	H0521: 2, H0542: 2,	H0543: 2, H0341: 1,	S0354: 1, S0358: 1,	S0408: 1, H0619: 1,	H0393: 1, H0592: 1,	H0590: 1, S0474: 1,	H0546: 1, H0551: 1,	H0494: 1, S0440: 1,	L0663: 1, H0660: 1,	H0672: 1, H0631: 1,	S0028: 1, L0757: 1,	S0434: 1, L0581: 1 and	L0593: 1.		H0617: 5, L0769: 4,	L0776: 4, L0751: 4,	L0747: 4, L0774: 3,	H0685: 2, H0657: 2,	H0483: 2, H0486: 2,	H0052: 2, H0674: 2,	H0494: 2, L0775: 2,	L0518: 2, H0682: 2,	L0603: 2, H0170: 1,	S6024: 1, S0116: 1,	H0664: 1, H0306: 1,
	Pro-42 to Ser-59, Asp-159 to Asn-	168,	Tyr-196 to Gly-205.									-	-				Glu-24 to Ser-29.											
3582	3583																3584	3585										
1 - 297	2 - 694						•		,			,					99 - 296	266 - 442	•									
1407	1408																1409	1410										
HOCPW68R	HOCPW81 HOCPW81R			•													HOCPX01R											
HOCPW68	HOCPW81																HOCPX01	HOCPY70										

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																		-									Pro-93 to Arg-99,	Ser-143 to Val-149.	Ser-25 to Ser-30.
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S0374: 22, S0444: 21.	.0662: 21, S0408: 19,	56: 15, S0380: 14,	.0664: 11, L0665: 11,	6: 11, H0059: 10,	S0328: 10, S0330: 10,	H0251: 9, L0809: 8,	H0670: 8, S0378: 8,	H0661: 7, S0354: 7,	S0440: 7, L0775: 7,	,0659: 7, L0663: 7,	H0672: 7, S0406: 7,	S0442: 6, S0414: 6,	0657: 6, L0774: 5,	H0659: 5, L0754: 5,	S0434: 5, S0376: 4,	.0483: 4, L0532: 4,	10547: 4, H0660: 4,	0602: 4, L0592: 4,	S0460: 4, S0007: 3,	H0529: 3, L0520: 3,	.0803: 3, H0648: 3,	S0404: 3, L0748: 3,	.0747: 3, L0750: 3,	.0759: 3, H0445: 3,	.0608: 3, S0424: 3,	H0663: 2, H0664: 2,	H0580: 2, L0444: 2,	H0156: 2, H0014: 2,	H0615: 2, H0688: 2,
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H0039: 2, H0644: 2,	, H00	H0673: 2, L0763:	.0646: 2, L0804: 2,	.0776: 2, H0627: 2,	J0777: 2, L0758: 2,	, H05	L0615: 1, H0685: 1,	10656: 1, L0778: 1	, H03,	H0669: 1, H0662:	H0402: 1, S0356: 1,	, S047	, H02	, но	, T0082:		, H0596:	, H0178:	H0563: 1, H0012:	, H0031: 1	, H01	70067: 1, H0264:	H0488: 1, H0100:	H0494: 1, S0352:	, S045	H0509: 1, S0472:	H0647: 1, H0695:	L0764: 1, L0765: 1	.0767: 1, L0768:
339: 2	517: 2	573: 2	346:2	776: 2	77:2	362: 2	515: 1	556: 1	785: 1	569: 1	402: 1	08: 1	351: 1	486: 1	,0021: 1,	H0581: 1	40235: 1,	.0040: 1	563: 1	H0328: 1	H0068: 1,	67:1	488: 1	494: 1	148: 1	509: 1	547: 1	764: 1	767: 1
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					Met-1 to Leu-6,	Gly-19 to Lys-26,	Ala-32 to Lys-38,	Ala-89 to Leu-94,	Gly-134 to Val-141.	Met-36 to Pro-42,	Pro-49 to Thr-55,	Leu-104 to Met-110,	Trp-112 to Asn-117,	Glu-122 to Tyr-134,	Gln-142 to Ser-148,	Leu-174 to Tyr-180.
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	Thr-21 to Gly-28, Lys-36 to Gly-43, Ala-73 to His-85.		Gly-70 to Gly-79.	
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	216 - 521	2 - 529	3 - 335	290 - 550
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H0710: 9 H0556: 8	.0666: 8	.0751: 8	.0592: 8	H0318: 7, L0774: 7,	.0664: 7	H0510: 6, L0731: 6	10423: 6, H0638: 5,	H0580: 5, H0427	H0050: 5, H0271: 5,	.0800:	H0552: 5, L0581: 5	H0506: 5, H0402: 4,	S0358: 4, H0179: 4,	7.8970	.0438: 4	10658: 4, S0328: 4,	H0555: 4	.0747: 4	20777: 4	J0593: 4, S0134: 3,	H0657: 3, H0663: 3,	H0305: 3, S0420: 3,	H0619: 3, H0635: 3,	H0098: 3, H0575: 3,	S0003: 3, H0264: 3,	H0413: 3, H0623:	H0494: 3, H0641	.0763: 2	.0794: 3
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0651-3 T 0806-3	0653: 3, 1,0776: 3,		.0655: 3, H0519:	H0690: 3, S0330:	.0602: 3, S0404: 3,	.0779: 3, L0752: 3,	L0755: 3, H0542:	S0114: 2, S0282: 2,	H0661: 2, S0356: 2,	S0376: 2, S0132: 2,	H0411: 2, H0431:	H0586: 2, H0013:	S028	H059	H00	H02	H0416: 2, H0687:	H0316: 2, H0634:	H0551: 2, T0042:	S0440: 2, H0646: 2,	S0002: 2, H0529: 2,	.0769: 2, L0638: 2,	.0761: 2, L0372: 2,	.0646: 2, L0641: 2,	.0648: 2, L0804: 2,	.0784: 2, L0606: 2,	L0663: 2,	S0374: 2, L0565: 2,	H0711: 2, S0380: 2,	H0696: 2, S3014: 2,
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L0748: 1, L0756: 1,	L0777: 1, L0752: 1,	L0755: 1, H0343: 1,	H0707: 1, L0605: 1,	H0668: 1, S0196: 1 and	H0506: 1.	H0046: 12, L0771: 7,	L0774: 3, L0651: 3,	L0806: 3, L0666: 3,	L0565: 3, L0748: 3,	S0444: 2, S0408: 2,	H0393: 2, L0372: 2,	L0662: 2, L0766: 2,	L0659: 2, L0664: 2,	L0744: 2, L0731: 2,	H0294: 1, S0442: 1,	S0278: 1, H0549: 1,	L0021: 1, H0085: 1,	H0234: 1, H0596: 1,	H0597: 1, H0546: 1,	H0024: 1, S0003: 1,	H0252: 1, H0383: 1,	H0674: 1, H0068: 1,	H0487: 1, H0413: 1,	T0069: 1, H0100: 1,	H0494: 1, H0625: 1,	S0352: 1, L0761: 1,	L0772: 1, L0646: 1,	L0800: 1, L0764: 1,	L0773: 1, L0794: 1,
						Leu-16 to Pro-22,	Val-30 to Asp-36.	•											-										
						3604												•											
						61 - 546																							
		•				1429																							
						HOCQJ35R	-									-													
						HOCQJ35																							

L0649: 1, L0803: 1, L0805: 1, L0653: 1, L0515: 1, L0367: 1, L0665: 1, S0374: 1, H0684: 1, H0660: 1, S0328: 1, S0044: 1, S0404: 1, L0740: 1, L0747: 1, L0757: 1, L0758: 1, S0260: 1 and S0276: 1.			H0328: 1 and H0435: 1.	L0493: 4, L0794: 3, H0497: 2, H0038: 2, L0766: 2, L0809: 2, L0779: 2, L0777: 2, L0759: 2, L0601: 2, H0170: 1, S0114: 1, H0341: 1, H0125: 1, S0046: 1, H0559: 1, H0587: 1, H0559: 1, H0616: 1, H0386: 1, H0616: 1, H0386: 1, L0769: 1, L0764: 1,
	Gly-2 to Gly-12, Gly-14 to Asn-28, Met-32 to Gly-49, Lys-54 to Phe-76.		Ala-1 to Ser-8.	Gln-1 to Pro-16.
	3605	3606	3607	3608
	3 - 230	2 - 76	234 - 395	266 - 484
	1430	1431	1432	1433
	HOCQM24 HOCQM24R	HODAF78R	HODBT55R	HODCT68R
	HOCQM24	HODAF78	HODBT55	HODCT68

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L0775: 1, L0666: 1, H0659: 1, H0518: 1, L0741: 1, L0439: 1, L0747: 1, L0593: 1, L0594: 1, H0665: 1 and H0667: 1.	AR089: 19, AR104: 18, AR060: 12, AR096: 7, AR055: 4, AR061:	L0751: 29, H0549: 17, H0550: 17, L0666: 9, I 0747: 8, H0689: 7.	H0690: 7, H0682: 7, H0615: 6, H0670: 6, H0328: 5, H0150: 4.	H0660: 4, S0330: 4, S0044: 4, L0362: 4,	n039/: 3, n0000: 3, L0764: 3, L0657: 3, L0809: 3, L0753: 3,	L0758: 3, L0759: 3, H0431: 2, H0046: 2, F0067: 3, H0059: 3	10007. 2, 110039. 2, H0647: 2, L0774: 2, L0805: 2, L0783: 2,	L0438: 2, H0593: 2, H0648: 2, H0672: 2,	S0328: 2, S0404: 2, L0744: 2, L0779: 2,
	3609					-			
	2 - 139								
	1434								
	HODCZ52R								
·	HODCZ52								

																												,	
S0436: 2. H0662: 1.	S0442: 1, S0444: 1,	S0408: 1, S0007: 1,	H0461: 1, H0085: 1,	H0009: 1, S0024: 1,	H0188: 1, H0039: 1,	H0604: 1, H0424: 1,	H0169: 1, H0674: 1,	L0520: 1, L5569: 1,	L0803: 1, L0804: 1,	L0775: 1, L0658: 1,	L0634: 1, L0542: 1,	L0528: 1, L2269: 1,	L0663: 1, L0665: 1,	H0684: 1, H0659: 1,	H0658: 1, S0380: 1,	S0406: 1, H0555: 1 and	L0780: 1.	L0794: 4, L0803: 4,	H0328: 3, L0779: 3,	L0515: 2, L0809: 2,	H0144: 2, L0754: 2,	L0756: 2, L0759: 2,	H0171: 1, S0282: 1,	H0346: 1, S0222: 1,	H0441: 1, H0486: 1,	H0069: 1, H0052: 1,	H0544: 1, H0266: 1,	L0598: 1, L0638: 1,	L0766: 1, L0650: 1,
																		Gly-7 to Glu-41.								٠			
																		3610											
																		3 - 194										:	
				,	,				~	•	_	,					•	1435											
				•					-			-						HODDI57R											
		•																HODDI57											

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L0774: 1, L0805: 1, L0776: 1, L0657: 1, L0559: 1, L0659: 1, L0543: 1, L0438: 1, H0682: 1, S0328: 1, L0745: 1, L0750: 1, L0777: 1, L0752: 1, L0778: 1, H0343: 1 and H0665: 1.	L0754: 20, L0759: 6, L0794: 4, H0615: 3, L0438: 3, S0126: 3, S0360: 2, H0411: 2, H0050: 2, H0163: 2, S0422: 2, L0665: 2, L0748: 2, L0747: 2, L0749: 2, L0780: 2, L0755: 2, H0595: 2, L0361: 2, H0170: 1, H0686: 1, H0638: 1, S0376: 1, H0638: 1, H0224: 1, H0528: 1, H0428: 1, H0625: 1, S0210: 1, L0598: 1, L0667: 1, L0764: 1, L0667: 1, L0764: 1, L0669: 1, L0655: 1,
	Leu-7 to Thr-16.
	3611
	11 - 295
	1436
	HODEJ47R
	HODEJ47

	,				•					•											
L0789: 1, L0663: 1, H0144: 1, S0330: 1, S0028: 1, L0751: 1, L0750: 1, L0731: 1, L0758: 1 and L0605: 1.		L0803: 7, L0439: 4, L0663: 3, L0749: 3.	H0615: 2, L0769: 2,	L0794: 2, L0774: 2,	L0748: 2, L0777: 2,	L0752: 2, L0142: 1,	H0646: 1, L0767: 1,	L0804: 1, L0784: 1,	L0805: 1, L0789: 1,	L0666: 1, L0438: 1,	H0670: 1 and L0589: 1.	H0615: 1 and S0031: 1.			L0662: 2, H0615: 1,	L0761: 1, L0791: 1,	H0519: 1, L0752: 1 and	L0758: 1.	H0615: 2		H0328: 1 and H0615: 1.
				-		-						Asn-1 to Ser-6,	Thr-22 to Asn-32.						Ser-1 to Ser-9, Asp-15 to Ala-21.		
-	3612	3613										3614		3615	3616				3617	3618	3619
	1 - 54	187 - 432										349 - 444		92 - 289	2 - 421				153 - 347	370 - 546	374 - 568
	1437	1438										1439		1440	1441				1442	1443	1444
	HODEO42R	HODEP78R										HODEQ42R		HODER57R	HODES60R				HODEU47 HODEU47R	HODEV69R	HODEW54 HODEW54R
	HODEO42	HODEP78										HODEQ42		HODER57	HODES60				HODEU47	HODEV69	HODEW54

	H0615: 2 and L0532: 1.	H0615: 4 and L0659: 1.		L0747: 16, L0754: 10, L0751: 7, L0757: 7,	H0657: 6, L0748: 6,	L0771: 5, H0659: 5,	L0740: 5, L0755: 5,	H0594: 4, L0744: 4,	H0341: 3, S0358: 3,	S0278: 3, H0333: 3,	H0615: 3, S0366: 3,	L0520: 3, L0775: 3,	L0517: 3, S0374: 3,	S0328: 3, L0731: 3,	H0136: 3, T0002: 2,	S0218: 2, S0116: 2,	S0354: 2, S0376: 2,	H0637: 2, S0045: 2,	H0370: 2, L0622: 2,	H0156: 2, H0599: 2,	H0545: 2, H0266: 2,	H0039: 2, H0617: 2,	H0132: 2, L0769: 2,	L0665: 2, H0672: 2,	H0539: 2, H0134: 2,	L0756: 2, L0752: 2,
	·			Ala-9 to Asp-21, Thr-31 to Arg-37.									-													
3620	3621	3622	3623	3624									,												;	•
309 - 566	220 - 423	58 - 231	1 - 432	1 - 207													•								:	:
1445	1446	1447	1448	1449								•			•					•						-
HODEW79 HODEW79R	HODEX45 HODEX45R	HODEX69R	HODEX79R	HODFC44 HODFC44RP	3					,																
HODEW79	HODEX45	HODEX69	HODEX79	HODFC44										-												

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.0758: 2, H0624: 1,	H0170: 1, H0265: 1,	S6024: 1, H0656: 1,	H0255: 1, H0661: 1,	H0125: 1, H0192: 1,	S0418: 1, S0420: 1,	S0360: 1, H0580: 1,	H0393: 1, S0300: 1,	H0411: 1, H0369: 1,	H0261: 1, S0222: 1,	.0623: 1, S0280: 1,	H0618: 1, H0318: 1,	10581: 1, H0421: 1,	.0738: 1, H0086: 1,	.0471: 1, H0024: 1,	H0082: 1, L0043: 1,	30214: 1, H0031: 1,	H0673: 1, H0068: 1,	Ę,	H0087: 1, T0067: 1,	H0412: 1, H0100: 1,	H0512: 1, S0144: 1,	S0142: 1, S0344: 1,	S0422: 1, H0517: 1,	0762: 1, L0763: 1,	.0761: 1, L0764: 1,		,0649: 1, L0774: 1,	,0651; 1, L0776; 1,	L0655: 1, L0526: 1,
L07	H0.	<u> </u>	H0.	HO	S04	S03	HO	70H	H0,	<u>20</u>	HOT	HO.	<u>10,</u>	<u> </u>	HO	S02	<u>H</u> O	<u>H</u>	)HOH	<u>H</u>	HO	<u>S01</u>	S04	<u>1.07</u>	<u>1.07</u>	<u>10</u>	<u>3</u>	<u>තු</u>	<u>3</u>
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L0518: 1, L0783: 1, L0809: 1, L0666: 1, L0663: 1, H0144: 1, H0593: 1, H0682: 1, H0648: 1, S0044: 1, H0214: 1, L0439: 1, L0749: 1, L0750: 1, L0753: 1, H0444: 1, H0445: 1, H0595: 1, L0581: 1, L0593: 1 and H0542: 1.	L0794: 3, L0776: 2, S0358: 1, H0615: 1, H0538: 1, L0662: 1, L0803: 1, L0805: 1, L0791: 1, L0663: 1, S0374: 1, H0658: 1 and L0758: 1.	L0766: 2, H0328: 1 and H0615: 1.	-	H0328: 1 and H0615: 1.		H0615: 2, H0370: 1, H0328: 1 and L0749: 1.
	Ser-22 to Gln-38.			Pro-18 to Pro-23, Pro-37 to Val-42.	Lys-69 to Asp-81.	
	3625	3626			3630	3632
	3 - 281	296 - 433 293 - 409	2 - 259	97 - 225	1-69	1 - 165
	1450	1451	1453	1454	1455	1457
	HODFD90R	HODFE81R HODFI68R	HODFJ14R	HODFJ52R	HODFK30 HODFK30RA	
	НОДЕДБО	HODFE81 HODFI68	HODFJ14	HODFJ52	HODFK30	HODFL50

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	H0615: 2	L0666: 3, H0615: 2,	S0116: 1, H0675: 1,	H0012: 1, L0055: 1,	S0438: 1, L0763: 1,	L0667: 1, L0649: 1,	L0803: 1, L0804: 1,	L0659: 1, H0689: 1,	H0659: 1, L0752: 1 and	S0026: 1.			•	•		-						H0615: 2				H0328: 1, H0615: 1	and LU365: 1.	H0615: 3, H0693: 2,
Ala-2 to Trp-9.		Glu-12 to Gly-27,	Gln-37 to Tyr-49.								His-33 to Leu-39,	Gly-49 to Glu-56,	Ser-60 to Lys-143.	Leu-33 to Val-40,	Lys-144 to Glu-152.	His-1 to Lys-12,	Gln-17 to Leu-27,	Val-69 to Asp-76,	Asp-122 to Trp-128,	Asp-141 to Glu-146,	Ser-155 to His-164.	•			Pro-1 to Asp-7.			
3633	3634	3635									3636			3637		3638						3639	3640	3641	3642	3643		3644
304 - 393	251 - 565	1 - 195									11 - 439			1 - 519		2 - 535						84 - 512	372 - 695	2 - 130	291 - 467	7 - 168		64 - 210
1458	1459	1460		•							1461			1462		1463						1464	1465	1466	1467	1468		1469
HODFL75 HODFL75R	HODFO16R	HODFO64 HODFO64R									HODFP51R			HODFQ19R		HODFQ37 HODFQ37R						HODFR72R	HODFU24R		HODFV22R	<u> </u>		HODFV69R
HODFL75	HODFO16	HODF064									HODFP51			HODFQ19	,	HODFQ37						HODFR72	HODFU24	HODFU78	HODFV22			HODFV69

							,																		
																•									
H0266: 1, S0002: 1, L0790: 1. H0547: 1.	S0152: 1, H0521: 1,	H0696: 1, L0366: 1,	S0194: 1 and S0276: 1.				H0615: 2, S0444: 1,	L0438: 1 and L0439: 1.		-							H0615: 2	L0754: 2, L0756: 2,	H0615: 1, L0438: 1 and	L0747: 1.	L0741: 4, H0615: 2,	L0769: 2, L0793: 2,	H0328: 1, S0144: 1,	L0794: 1, L0499: 1,	L0755: 1.
			,				Lys-8 to Tyr-26,	Thr-67 to Met-73.	Val-1 to Ser-9,	Gln-22 to Ser-29.		Thr-14 to Asn-19.		Thr-7 to Ser-14,	Pro-28 to Gly-36.	His-8 to Gly-18, Phe-25 to Glv-30.					Lys-1 to Thr-7,	Ser-13 to Arg-33,	Val-56 to Lys-63,	Phe-143 to Thr-148.	
		٠,٠٠		3645	3646	3647	3648		3649		3650	3651	3652	3653		3654	3655	3656		_	3657				
·				360 - 623	14 - 154	587 - 718	22 - 309		186 - 308	•	3-95	91 - 225	129 - 407	25 - 132	•	36 - 128	2 - 166	127 - 300	-	_	2 - 583				
				1470	1471	1472	1473		1474		1475	1476	1477	1478		1479	1480	1481			1482				
				HODFV79R	HODFV82R	HODFV95R	HODFY38R		HODGA29R		HODGB69R	HODGB78 HODGB78R	HODGE22R			норсн43 норсн43к	HODGH65 HODGH65R	HODGL65R			HODGN53R				
				HODFV79	HODFV82	HODFV95	HODFY38		HODGA29		HODGB69	HODGB78	HODGE22	норен30		НОДСН43	НООСН65	HODGL65			HODGN53				

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															•		-								
	H0615: 2 and L0779:							H0615: 3 and L0766:	1.			L0805: 19, L0794: 13,	L0766: 12, L0740: 11,	L0747: 11, L0779: 11,	L0803: 8, H0521: 7,	L0439: 7, L0731: 7,	L0605: 7, S0474: 6,	S0422: 6, L0769: 6,	L0776: 5, L0665: 5,	L0748: 5, L0758: 5,	H0618: 4, S0010: 4,	L0771: 4, L0789: 4,	S3014: 4, H0341: 3,	H0615: 3, L0659: 3,	S0052: 3, L0438: 3,
	-	Glu-23 to Val-28,				Lys-1 to Gly-12,	Ser-46 to Gly-51.					Pro-30 to Asn-35,	Arg-39 to Asn-57,	Ser-62 to Ile-67,	Glu-73 to Arg-81,	Lys-89 to Lys-99.	•								
3658	3659	3660	3661	3662	3663	3664		3665		3666	3667	3668		,	-										
361 - 561	1 - 348	2 - 193	1 - 198	9-131	205 - 354	182 - 3		358 - 513		219 - 572	379 - 573	1 - 504		•								,			
1483	1484	1485	1486	1487	1488	1489		1490		1491	1492	1493													
HODGO02 HODGO02R	нордоо нордоож	HODGO21 HODGO21R	HODGP53R	HODGQ52R	HODGS83R	HODGW91 HODGW91R		HODGX46 HODGX46R		HODGX91R	HODGY90 HODGY90R	HODGZ63R													
HODGO02	HODGO09	HODG021	HODGP53	_	HODGS83	HODGW91		HODGX46		HODGX91	HODGY90	HODGZ63													

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6: 3,	. 3,	. 2,	9: 2,	0: 2,	8: 2,	8: 2,	4: 2,	4: 2,	2: 2,	1: 2,	. 2, 	1: 2,	2: 1,	5: 1,	2: 1,	3: 1,	1:1,	0: 1,	9: 1,	1:1,	3: 1,	0: 1,	3: 1,	3: 1,	4: 1,	5: 1,	0: 1,	2: 1,	8: 1,
H0658: 3, H0436: 3,	.0752: 3, L0759: 3,	S0360: 2, S0222: 2,	H0574: 2, H0599: 2,	H0196: 2, H0050: 2,	H0266: 2, H0708: 2,	H0135: 2, H0038: 2,	H0616: 2, L0804: 2,	H0144: 2, S0374: 2,	.0352: 2, H0682: 2,	.0743: 2, L0744: 2,	.0751: 2, L0749: 2,	.0756: 2, S0424: 2,	H0624: 1, T0002:	H0657; 1, L0785;	H0671: 1, S0442:	S0408: 1, H0733:	S0278: 1, H0431:	H0013: 1, S0280:	H0581: 1, S0049:	H0052: 1, H0251:	.0040: 1, H0123:	.0471: 1, H0630:	H0375: 1, S0003:	H0252: 1, L0483:	70006: 1, H0644:	H0673: 1, S0036:	H0163: 1, H0040:	H0551: 1, H0412:	H0413: 1, S0038:
)OH	<u> </u>	S03	HO	OH	H0.	EDH.	<u>H0</u>	H0]	<u> </u>	<u>101</u>	<u>[0</u>	<u> </u>	ЮH	HO	ЮH	S04	S02	)0 <u>H</u>	HO	Ю <u>Н</u>	<u> </u>	1.04	)OH	HO	100	HO	HO.	ЮH	70H
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H0509: 1, H0131: 1, S0344: 1, L0598: 1, L0369: 1, L0763: 1, L0770: 1, L0662: 1, L0770: 1, L0662: 1, L0775: 1, L0375: 1, L0806: 1, L0806: 1, L0809: 1, S0126: 1, H0689: 1, H0684: 1, H0669: 1, H0672: 1, S0146: 1, S0027: 1, S0028: 1, L0745: 1, L0750: 1, L0745: 1, L0750: 1, L0745: 1, L0753: 1, H0445: 1, L0750: 1, L07423: 1 and H0653: 1, H0423: 1 and H0650: 1, H0643: 1, L0760: 1, H0653: 1, H0423: 1 and H0650: 1.			H0615: 2	H0328: 1 and H0615:		
		Pro-8 to Asn-18, Gln-25 to Glu-30.	Tyr-33 to Tyr-38.	-		Pro-57 to Gly-64, Leu-69 to Arg-74,
	3669	3670	3671	3672	3673	;
	12 - 179	3 - 134	14 - 205	190 - 366	3 - 515	
·	1494	1495	1496	1497	1498	
	HODGZ76R	HODHD23R	HODHD64 HODHD64R	норнез6 норнез6к	норне54К	
	9/Z5QOH	HODHD23	HODHD64	НОДНЕЗ6	НОРНЕ54	

																									-	
																					1					
	H0328: 1 and H0615: 1.										H0261: 1 and H0615:	1.	AR104: 14, AR096:	13, AR089: 11, AR060:	10, AR055: 6, AR061:	·	H0615: 3, H0658: 2,							S0360: 9, L0642: 5,	L0752: 5, L0662: 4,	L0659: 4, L0666: 4,
Thr-76 to Tyr-86.	Lys-42 to Asp-48.	Glu-11 to Trp-17,	Val-22 to Ser-29,	Asp-45 to Lys-52.	Trp-12 to Ile-18,	Gln-40 to Leu-54.	Lys-17 to Ala-24.	Glu-1 to Gln-7,	Met-64 to Gly-69.		Lys-9 to Ser-15,	Val-42 to Thr-50.	Phe-116 to Met-126, AR104: 14, AR096:				•		Gln-40 to Glu-48,	Phe-68 to Arg-77,	Ile-108 to Glu-113.		Arg-33 to Thr-38.	-		
	3674	3675			9298		2498	3678		3679	3680		3681					3682	3683			3684	3685	3686		
	2 - 166	82 - 300			281 - 499		71 - 238	2 - 292	!	2 - 115	218 - 472		31 - 594					504 - 746	3 - 344			73 - 216	1 - 159	1 - 486		
	1499	1500			1501		1502	1503		1504	1505		1506					1507	1508			1509	1510	1511		
	HODHE88R	HODHG56 HODHG56R			HODHJ56R		HODHK82R	норнк86 норнк86к	•	HODIG29R	HODJL36 HODJL36RA		HODJZ09R					HODKB19R	HODKB82R			HODKB89R	норкв93 норкв93к	HODKC29R		
	норне88	HODHG56			HODHJ56		HODHK82	НООНК86		HODIG29	HODJL36		HODIZ09					HODKB19	HODKB82			HODKB89	HODKB93	HODKC29		

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46: 3,	50: 3,	44:2,	83: 2,	748: 2,	65: 2,	779: 2,	10: 1,	118: 1,	08: 1,	331: 1,	114: 1,	156: 1,	49: 1,	327: 1,	T0010: 1,	515: 1,	36: 1,	616: 1,	T0041: 1,	138: 1,	509: 1,	10: 1,	L0762: 1,	531: 1,	L0766: 1,	74: 1,	547: 1,	559: 1,	52: 1,
3, L06	.0776: 3, L0750: 3,	2, S04	2, L04	.0764: 2, L0648: 2,	.0775: 2, L0665: 2,	2, LO	2, S01	1, S02	1, S04	.0717: 1, H0331:	H0574: 1, S0414:	H0492: 1, H0156:	1, S0049: 1	1, HO	1, T00	1, H06	1, S00	H0038: 1, H0616:	1, T00	1, S04	1, H0	1, S02	1, 1.07	.0640: 1, L0631:	1, 1.07	.0551: 1, L0774:	.0664: 1, H0547:	1, H06	1, S01
S0007: 3, L0646: 3,	1.0776	H0662: 2, S0444: 2,	S0222: 2, L0483: 2,	L0764:	L0775:	H0648: 2, L0779: 2,	S0031: 2, S0110:	H0638: 1, S0418:	S0376: 1, S0408:	L0717:	H0574:	H0492	L0021: 1	H0310: 1, H0327:	H0373: 1,	S6028: 1, H0615: 1	S0366: 1, S0036: 1	H0038:	H0413: 1,	H0494: 1, S0438:	S0440: 1, H0509:	S0142: 1, S0210:	L0598: 1, ]	L0640:	L0772: 1,	L0551:	L0664:	S0126: 1, H0659: 1	S0378: 1, S0152:
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H0696: 1, S3014: 1, L0439: 1, L0740: 1, L0754: 1, L0756: 1, L0780: 1, L0755: 1, L0758: 1, S0434: 1 and H0667: 1.	H0615: 2		H0615: 2 and H0696: 1.	H0615: 2 and H0328: 1.			H0615: 2					-							•
		Arg-11 to Ser-17, Leu-51 to Pro-57.	Pro-5 to Asn-10.	Ser-18 to Ile-23.	Lys-12 to Ser-18.			Asp-40 to Gly-45, I en-59 to Glu-67.	Lys-95 to Ile-105,	Asp-113 to Gly-118.	Ser-15 to Phe-23,	Lys-41 to Tyr-46,	Pro-48 to Val-59,	Thr-90 to He-103,	Ser-110 to Arg-116,	Pro-123 to Lys-137,	Lys-157 to Glu-167,	Arg-178 to Arg-194.	Phe-106 to Pro-114.
·	3687	3688	3689	3690	3691	3692	3693	3694	•		3695								3696
	242 - 373	43 - 213	413 - 237	314 - 412	244 - 417	28 - 240	452 - 595	2 - 415			1 - 642								3 - 344
	1512	1513	1514	1515	1516	1517	1518	1519			1520								1521
	HODKC67R	норкр20 норкр20к	НОДКД64 НОДКД64К	HODKE85R	HODKF91R	HODKG09 HODKG09R	HODKJ77R	HODKK26R			HODKK40R								HODKK73 HODKK73R
	HODKC67	норкр20	НОДКД64	HODKE85	HODKF91	HODKG09	HODKJ77	HODKK26			HODKK40								HODKK73

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H0615: 2			,		H0659: 4, L0770: 3,	L0747: 3, H0663: 2,	S0360: 2, L0521: 2,	L0776: 2, S0126: 2,	H0658: 2, S0406: 2,	L0755: 2, L0758: 2,	L0759: 2, S0242: 2,	T0002: 1, H0686: 1,	H0341: 1, L0616: 1,	S0354: 1, S0408: 1,	H0052: 1, H0009: 1,	H0083: 1, H0266: 1,	H0615: 1, L0483: 1,	H0040: 1, H0561: 1,	S0422: 1, L0520: 1,	L0625: 1, L0662: 1,	L0766: 1, L0649: 1,	L0519: 1, H0648: 1,	S3014: 1, L0748: 1 and	L0779: 1.					
Ser-8 to Asn-15.		,															,					-			Glu-10 to Ala-26,	Lys-31 to Tyr-43,	Lys-45 to Glu-50,	lle-96 to Lys-102,	Asp-123 to Gly-128.
3697	3698	3699	3700	3701	3702	,								•											3703				
272 - 433	439 - 579	36 - 149	1 - 210	2 - 409	20 - 328															,					1 - 399				
1522	1523	1524	1525	1526	1527																				1528				
HODKK77 HODKK77R	HODKL56R	HODKM25 HODKM25R	HODKM31 HODKM31R	HODKN65 HODKN65R	HOECR39 HOECR39R							•								-	•				HOFAB77R				
HODKK77	HODKL56	HODKM25	HODKM31	HODKN65	HOECR39																				HOFAB77				

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					H0415: 2						H0415: 2														_			
		Arg-1 to Phe-16.	His-3 to Ala-19.		Glu-8 to Thr-14.	Ala-5 to Arg-14.	Asn-41 to Lys-56.	•		Asp-1 to Leu-10.	Arg-1 to Arg-8,	Ala-22 to Met-31,	Asp-51 to Gln-56.	Arg-1 to Ala-6,	Ser-68 to Arg-73,	Arg-87 to Ala-93.	Arg-1 to Cys-10,	Glu-75 to Arg-94,	Arg-99 to Gly-115.	Lys-52 to Asp-57.	Arg-1 to Phe-7,	Gly-24 to Arg-36.		Val-31 to Val-38,	Phe-46 to IIe-59,	Arg-120 to Gln-126.		Asn-49 to Leu-54.
3704	3705	3706	3707	3708	3709	3710	3711	3712	3713	3714	3715			3716	_ <u></u>		3717	<u> </u>		3718	3719	)	3720	3721	<u>'</u>		3722	3723
95 - 277	85 - 219	2 - 397	1 - 162	1 - 204	69 - 323	1 - 423	50 - 289	1 - 264	1 - 369	3 - 296	2 - 481			2 - 421			25 - 387			1 - 186	2 - 232	-	1 - 453	2 - 682			1 - 345	3 - 326
1529	1530	1531	1532	1533	1534	1535	1536	1537	1538	1539	1540			1541			1542			1543	1544		1545	1546			1547	1548
HOFMF37R	HOFMF79 HOFMF79RA	HOFMJ88R	HOFMJ93R	HOFMM84 HOFMM84R	HOFMN93 HOFMN93R	HOFMP59 HOFMP59R	HOFMT68R	HOFWT69 HOFWT69R	HOFMU92 HOFMU92R	HOFMV06 HOFMV06R	HOFNF63R			HOFNF76R			HOFNG51R			HOFNK44R	HOFNY53R		HOFOB65R	HOFOB79RP	00A		HOFOE22R	HOFOF47R
HOFMF37	HOFMF79	HOFMJ88	HOFMJ93	HOFMM84	HOFMN93	HOFMP59	HOFMT68	HOFMT69	HOFMU92	HOFMV06	HOFNF63			HOFNF76	-		HOFNG51			HOFNK44	HOFNY53		HOFOB65	HOFOB79			HOFOE22	HOFOF47

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		H0436: 44, L0748: 14,	L0439: 9, L0747: 9,	L0769: 7, L0803: 7,	L0740: 7, L0755: 7,	L0758: 7, L0761: 6,	L0662: 6, L0794: 6,	L0766: 6, L0663: 6,	L0779: 6, H0542: 6,	L0717: 5, L0756: 5,	H0052: 4, H0135: 4,	L0774: 4, L0659: 4,	L0665: 4, L0777: 4,	L0780: 4, L0731: 4,	L0759: 4, H0556: 3,	S0420: 3, S0410: 3,	S0422: 3, L0763: 3,	L0649: 3, L0804: 3,	L0805: 3, L0776: 3,	L0438: 3, H0547: 3,	H0672: 3, H0539: 3,	L0754: 3, L0757: 3,	L0591: 3, H0422: 3,	S0040: 2, S0114: 2,	S0116: 2, H0255: 2,	H0619: 2, H0486: 2,	T0039: 2, H0013: 2,	H0635: 2, H0253: 2,
Ala-4 to Arg-11.	Ala-1 to Tyr-6, Ile-17 to Ser-32.	Pro-34 to Lys-39.									•							·		•								
3724	3725	3726												•														
1 - 351	35 - 193	110 - 286		•				•				,			,													
1549	1550	1551			•																							
HOFOF56R	HOGAC46 HOGAC46R	HOGAQ03 HOGAQ03R				•																						
HOFOF56	HOGAC46	HOGAQ03																										

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H0318: 2, S0049: 2,	H0046: 2, L0041: 2,	H0688: 2, H0428: 2,	H0628: 2, L0055: 2,	H0040: 2, H0087: 2,	H0488: 2, H0100: 2,	F0042: 2, H0529: 2,	5566: 2, L0667: 2,	7771: 2, L0768: 2,	3375: 2, L0517: 2,	L0809: 2, L0666: 2,	0520: 2, H0519: 2,	H0593: 2, S0380: 2,	H0694: 2, L0742: 2,	.0751: 2, L0750: 2,	)434: 2, S0436: 2,	L0361: 2, L0601: 2,	L0603: 2, S0424: 2,	0506: 2, H0265: 1,	H0650: 1, H0657: 1,	H0656: 1, L0760: 1,	H0341: 1, S0001: 1,	H0663: 1, H0662: 1,	S0418: 1, S0356: 1,	0408: 1, H0580: 1,	S0007: 1, H0229: 1,	S0045: 1, S0046: 1,	S0132: 1, H0351: 1,	H0411: 1, H0431: 1,	H0592: 1, H0497: 1,
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80: 1,	18: 1,	21: 1,	94: 1,	50: 1,	73: 1,	10: 1,	52: 1,	22: 1,	17: 1,	38: 1,	16: 1,	64: 1,	22: 1,	38: 1,	)2: 1,	70: 1,	73: 1,	42: 1,	4.1,	88: 1,	57: 1,	18: 1,	89: 1,	54: 1,	26: 1,	89: 1,	82: 1,	70: 1,	30: 1,
1, S0280:	1, H06	l, H04	1, H02	^	1, H0373:	1, T0010:	1, H0252:	•	1, H0617:	1, H0038:	1, H06	1, H02	1, H00	1, H05	1, S0002:		1, L0373:		1, L0764:	1, L0388:	1, L0657:	1, L0518:	1, L07	1, L0664:	1, H07	1, H06	1, H06	1, H06	1, S0330:
H0069: 1	H0118: 1, H0618: 1	S0010: 1, H0421:	H0251: 1, H0204:	H0572: 1,	H0012:	H0051:	H0354:	H0328:	H0181: 1	H0673:	H0634: 1, H0616:	10155:	S0038: 1, H0022:	H0625: 1, H0538:	S0210:	.0762: 1	5565: 1,	.0800: 1,	.0374: 1,	.0364: 1	.0655: 1,	.0526: 1, ]	.0382: 1, L0789:	.0792: 1.]	H0723: 1, H0726:	S0126: 1, H0689:	H0690: 1, H0682:	H0435: 1, H0670:	H0648: 1,
	<u> </u>	<u>w</u>	<u> </u>	<u> </u>	正	<u> </u>	<u> </u>	<b>. . . .</b>	王	Œ	프	프	Š	프	Ŋ	ᆈ	<u> </u>	ᆜ		႕	ᆚ	그	브		<u> </u>	S	<u> </u>	<u> </u>	H
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S0378: 1, S0152: 1, S0406: 1, H0555: 1, H0678: 1, L0744: 1, L0752: 1, L0753: 1, H0445: 1, H0707: 1, L0593: 1, L0595: 1, S0011: 1, H0668: 1, S0026: 1, H0665: 1, S0196: 1, H0543: 1 and H0677: 1.	L0777: 7, L0747: 6, L0779: 6, L0748: 5, L0776: 4, L0749: 4, L0776: 3, L0766: 3, L0759: 3, S0442: 2, L0779: 2, L0761: 2, L0771: 2, L0774: 2, L0665: 2, L0774: 2, L0665: 2, L0757: 2, L0758: 2, S0412: 2, H0402: 1, S0444: 1, H0438: 1, H0587: 1, H0674: 1, L0646: 1, L0763: 1, L0643: 1, L0764: 1, L0662: 1, L0763: 1, L0662: 1, L0387: 1, L0803: 1, L0526: 1, L0647: 1,
	Asp-15 to His-22.
	3727
	265 - 591
	1552
	HOGBE60R
	HOGBE60

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H0435: 1, S0330: 1,	S0406: 1, L0740: 1,	L0751: 1, L0780: 1,	S0436: 1 and L0596: 1.				H0435: 4, H0726: 3,	L0748: 3, H0355: 2,	H0059: 2, L0525: 2,	H0713: 1, H0717: 1,	H0586: 1, H0427: 1,	H0575: 1, H0744: 1,	H0327: 1, H0271: 1,	H0622: 1, H0087: 1,	S0438: 1, L0792: 1,	H0593: 1, H0555: 1,	L0698: 1 and H0506: 1.	H0052: 1, H0135: 1,	H0429: 1, H0519: 1 and	H0435: 1.								
			,										•								Val-6 to Ala-11.	Thr-56 to Glu-61,	Lys-87 to Lys-95,	Thr-110 to Arg-118.	Ţ	Arg-11 to Arg-16,	Pro-46 to Thr-52,	His-58 to Pro-65,
				3728	3729	3730	3731											3732			3733	3734			3735	3736		
				230 - 436	50 - 409	58 - 207	3 - 332											10 - 480			3 - 254	7 - 507			3 - 143	1 - 486		,
				1553	1554	1555	1556				÷							1557			1558	1559			1560	1561		
				HOGCF48R	HOGCG83R	HOGCH23R	HOGCI28R											HOGCJ10R			HOGCJ42R	HOGCJSSR			HOGCP07R	HOGCP86 HOGCP86RA		
				HOGCF48	HOGCG83	HOGCH23	HOGCI28											HOGCJ10			HOGCJ42	HOGCJ55			HOGCP07	HOGCP86		

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Ala-71 to Trp-77,	Pro-134 to Gly-146.	His-14 to Phe-20,	Ser-37 to Gly-60.	Gly-20 to Leu-28,	Val-33 to Gly-41,	Thr-43 to Gly-55,	Val-58 to Arg-66.	Lys-7 to Thr-13,	Asp-24 to Thr-30,	Gly-39 to Glu-52,	Leu-70 to Arg-76,	Phe-87 to Tyr-92.	Lys-2 to Thr-8,	Asp-19 to Thr-25,	Gly-34 to Glu-47,	Leu-65 to Arg-71.	Asn-5 to Gln-12,	Gln-19 to Glu-25,	Arg-78 to Glu-99,	Thr-106 to Ala-111.	Arg-1 to Asn-8,	Phe-18 to His-24,	Asp-57 to Lys-62,	Lys-76 to Asp-81.			Thr-9 to His-19, Leu-35 to Ala-46,
		3737	·	3738				3739			•		3740				3741				3742				3743	3744	3745
	•	1 - 183	•	3 - 443				22 - 513					2 - 235				3 - 338				3 - 260				3 - 152	95 - 184	2 - 397
		1562		1563				1564					1565				1566				1567				1568	1569	1570
		HOGCT44R		HOGCV85 HOGCV85R				HOGCV93 HOGCV93R					HOGCY12R				HOGCY58R				HOGCY74R				HOGDD29R	HOGDE77R	HOGDG03R
		HOGCT44		HOGCV85				HOGCV93				٠	HOGCY12				HOGCY58				HOGCY74				HOGDD29	HOGDE77	HOGDG03

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		L0665: 3, H0682: 2,	H0435: 2, L0751: 2,	H0663: 1, L0021: 1,		L0664: 1, H0683: 1,	H0670: 1 and H0660: 1.																					•
Pro-55 to Pro-60,	Gly-69 to Arg-74.	Arg-35 to Gly-40,	His-51 to Lys-56,	Phe-94 to Ser-99,	Thr-102 to Gly-107,	Pro-113 to Ser-120.		Gln-58 to Gln-64,	Cys-73 to Arg-88.		Pro-38 to Met-44.	Pro-6 to Tyr-17,	Val-39 to Gln-45.	Glu-3 to Glu-14.		Arg-9 to Val-17.	Arg-9 to Arg-18,	Arg-27 to Arg-35,	Arg-47 to Asp-55,	Asp-78 to Lys-83.	Gly-1 to Ala-6,	Glu-54 to Ile-62,	Asp-89 to Thr-98.		Tyr-94 to Phe-99.		Leu-3 to Arg-19.	
	·	3746						3747		3748	3749	3750		3751	3752	3753	3754				3755			3756	2757	3758	3759	3760
	:	3 - 497		•				1 - 342		124 - 357	2 - 322	74 - 244		3 - 299	3-335	22 - 492	48 - 470				1 - 417			2 - 241	3 - 326	2 - 325	2 - 325	2 - 226
		1571						1572		1573	1574	1575		1576	1577	1578	1579				1580			1581	1582	1583	1584	1585
		HOGDG76 HOGDG76R			·			HOGDI44R		HOGDI49R	HOGDO25R			HOGDP10R	HOGDQ54 HOGDQ54R	HOGDQ95 HOGDQ95R	HOGDR70 HOGDR70R			٠	HOGDV93R			HOGEA27R	HOGED85R	HOGEK25R	HOGEN30 HOGEN30R	HOGENSSR
		HOGDG76					•	HOGDI44		HOGDI49	HOGDO25	HOGDO58		HOGDP10	HOGDQ54	HOGDO95	HOGDR70				HOGDV93	-		HOGEA27	HOGED85	HOGEK25	HOGEN30	HOGENSS

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L0521: 1, L0662: 1 and H0435: 1		H0295: 8, H0617: 7,	L0665: 7, H0435: 7,	H0592: 6, H0494: 6,	L0439: 6, L0751: 6,	S0360: 5, S0046: 4,	H0587: 4, H0012: 4,	H0264: 4, L0662: 4,	S0406: 4, H0586: 3,	H0620: 3, H0031: 3,	H0551: 3, S0440: 3,	S0002: 3, L0763: 3,	L0648: 3, L0649: 3,	L0774: 3, L0659: 3,	H0520: 3, H0547: 3,	H0689: 3, H0660: 3,	S0328: 3, S0330: 3,	L0748: 3, L0754: 3,	L0750: 3, H0294: 2,	H0650: 2, H0341: 2,	80356: 2, 80132: 2,	H0370: 2, H0333: 2,	H0643: 2, L0623: 2,	H0706: 2, H0081: 2,	H0039: 2, H0553: 2,	H0181: 2, H0068: 2,	H0135: 2, H0040: 2,	H0646: 2, L0640: 2,
Gly-17 to Asn-27, Ser-51 to His-61																					-							
3761	3762	3763	1															-								·		
3-212	2 - 223	2-376																										
1586	1587	1588												٠						_								
HOGEP46 HOGEP46R	HOGEP69R	HOGET60R											,															
HOGEP46	HOGEP69	_	٠,							-			٠				-											

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0627.7 1 0641.7	.0764: 2, L0804: 2,	.0806: 2, L0776: 2,	.0657: 2, L0809: 2,	.0664: 2, H0519: 2,	H0682: 2, H0670: 2,	H0672: 2, L0744: 2,	.0740: 2, S0434: 2,	H0677: 2, H0483: 1,	H0305: 1, H0638: 1,	30442: 1, S0358: 1,	S0376: 1, S0410: 1,	HO411: 1, HO550: 1,	H0455: 1, H0600: 1,	H0101: 1, H0575: 1,	HO590: 1, H0618: 1,	H0052: 1, H0234: 1,	H0597: 1, H0121: 1,	.0041: 1, H0123: 1,	H0246: 1, H0290: 1,	H0292: 1, H0428: 1,	H0622: 1, T0023: 1,	H0030: 1, H0316: 1,	H0059: 1, H0100: 1,	S0306: 1, T0090: 1,	H0649: 1, S0210: 1,	S0426: 1, L0646: 1,	L0765: 1, L0771: 1,	.0626: 1, L0768: 1,	L0364: 1, L0766: 1,
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L0375: 1, L0651: 1, L0378: 1, L0653: 1, L0655: 1, L0558: 1, L0635: 1, L0518: 1, L0383: 1, L0792: 1, L0663: 1, S0006: 1, H0696: 1, S0044: 1, S3014: 1, L0743: 1, L0752: 1, L0755: 1, L0731: 1, L0759: 1, H0216: 1, H0543: 1,	AR096: 1, AR104: 1,	AR060: 0, AR089: 0	S0250: 1 and H0435: 1.								H0637: 2, H0413: 1 and H0648: 1.			
	Pro-8 to Asn-34,	Aia-39 to Arg-33.							Ser-1 to Gln-6,	Gly-4 to Lys-10.	Gly-4 to Lys-10.			Pro-17 to Ser-24.
·	3764			3765	3766	3767	3768	3769	3770	3771	3772	3773	3774	3775
·	3 - 368			1 - 417	256 - 333	52 - 144	2 - 307	3 - 170	128 - 313	9 - 194	9 - 152	126 - 260	60 - 383	14 - 205
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	HOGEU84 HOGEU84R			HOGEW58 HOGEW58R	HOGEW72 HOGEW72R	HOGEZ03 HOGEZ03R	HOGEZ27R	HOHDI15R	ноонв44 ноонв44R	HOOHC27 HOOHC27R	HOOHJ69R	HOOHK47 HOOHK47R	HOOHL15 HOOHL15R	HOOHL19R
	HOGEU84			HOGEW58	HOGEW72	HOGEZ03	HOGEZ27	HOHD[15	HOOHB44	HOOHC27	69ГНООН	HOOHK47	HOOHL15	НООНГ19

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L0748: 11, L0666: 5,	L0750: 5, L0805: 4,	L0663: 4, L0664: 4,	L0439: 4, L0662: 3,	L0758: 3, L0005: 2,	H0587: 2, H0318: 2,	H0052: 2, H0024: 2,	H0553: 2, L0770: 2,	L0648: 2, L0766: 2,	H0519: 2, H0648: 2,	L0740: 2, L0731: 2,	L0593: 2, H0677: 2,	H0170: 1, H0583: 1,	H0638: 1, H0586: 1,	H0331: 1, H0486: 1,	H0013: 1, H0156: 1,	H0036: 1, L0040: 1,	H0620: 1, S6028: 1,	H0328: 1, H0615: 1,	T0023: 1, S0036: 1,	H0591: 1, H0040: 1,	T0067: 1, S0472: 1,	H0529: 1, L0761: 1,	L0764: 1, L0771: 1,	L0649: 1, L0803: 1,	L0804: 1, L0775: 1,	L0806: 1, L0655: 1,	L0657: 1, L0659: 1,	L0790: 1, H0144: 1,
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L0438: 1, H0672: 1, H0522: 1, S0392: 1, L0747: 1, L0749: 1, L0756: 1, L0752: 1,	H0445: 1, L0591: 1 and H0422: 1.	•			-									L0770: 12, H0657: 10,	H0659: 9, L0776: 8,	H0648: 8, L0755: 8,	L0774: 7, S0410: 6,	H0494: 6, L0769: 6,	L0750: 6, S0408: 5,	S0440: 5, L0775: 5,	S0376: 4, S0360: 4,	L0748: 4, L0777: 4,	L0752: 4, L0759: 4,	H0341: 3, S0358: 3,
			Lys-1 to Lys-13.	Pro-10 to Ser-37,	Gln-41 to Thr-57,	Arg-62 to Thr-68,	Pro-80 to Lys-85,	Gly-99 to Gly-106.				Glu-1 to Glu-11.				,					•			
		3777	3778	3779					3780	3781	3782	3783	3784	3785			. /							,
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		1602	1603	1604					1605	1606	1607	1608	1609	1610										
		HOOHP84R	нооноо нооноок	нооновз нооновзя	-				HOOHR81R	HOOHS67R	HOOHS82R	HOOHT13R	HOOHX50 HOOHX50R	HOOIA46R										
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766: 3,	747: 3,	170: 2,	0685: 2,	7420: 2,	109: 2,	0545: 2,	0031: 2,	0560: 2,	438: 2,	772: 2,	518: 2,	0144: 2,	520: 2,	0670: 2,	0445: 2,	)665: 2,	134: 1,	)663: 1,	)638: 1,	)442: 1,	0369: 1,	0431: 1,	0069: 1,	048: 1,	049: 1,	H0081: 1,	0014: 1,	0083: 1,
H0616: 3, L0766: 3	LU/40: 3, LU/4/: 3,	S0026: 3, EC	H0556: 2, H0685: 2,	H0656: 2, S0420: 2,	S0444: 2, T0109: 2,	H0156: 2, H0545: 2,	L0471: 2, H0031: 2,	H0040: 2, H0560: 2,	L0065: 2, S0	L0763: 2, LC	L0764: 2, L0	L0783: 2, H0144: 2,	S0374: 2, H0520: 2,	H0658: 2, H0670: 2,	L0753: 2, H0445: 2,	S0434: 2, H0665: 2,	S0194: 2, S0134: 1	S0116: 1, H0663:	L0481: 1, H0638: 1	H0125: 1, SC	H0351: 1, H0369:	H0550: 1, H0431:	H0331: 1, H0069:	S0346: 1, T0048:	S0182: 1, S0049:	H0563: 1, H	H0620: 1, H0014: 1	H0373: 1, H0083:
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1.080	<u> </u>	107	<b>S</b> 04	H00	S00.	1.07	<u>106</u>	S00.	L05	H01	H06	H06	H06	S037	S00	1001	H06	H04	200	S00	H04	T01	1,04	H05	S00	H04	H06	1, H0031:
2:3,	γ. C.	0: 3,	6: 2,	8: 2,	3: 2,	5:2,	8:2	1:2,	2: 2,	3:2,	1: 1,	1: 1,	2: 1,	0: 1,	0:1,	2: 1,	9:1,	7: 1,	7: 1,	5: 1,	1:1,	3: 1,	5: 1,	I: 1,	5: 1,	8: 1,	9: 1,	3: 1,
S0002: 3, L0805: 3,	LU809: 3, LU438: 3 H0520: 3, L 0748: 3	.074	H0656: 2, S0418: 2,	S0358: 2, H0013: 2,	H0083: 2, S0022: 2,	S0386: 2, L0776: 2,	H0648: 2, L0602: 2,	H0521: 2, S0028: 2,	.074	H0423: 2, H0170:	H0171: 1, H0657: 1	H0341: 1, H0669:	H0662: 1, H0638: 1,	S0420: 1, S0376: 1,	H0580: 1, S0007: 1,	S0132: 1, L0717:	H0369: 1, H0600:	H0587: 1, H0497:	H0427: 1, L0021:	H0575: 1, S0010:	H0581: 1, H0421:	H0263: 1, T0115:	H0545: 1, L0471:	S0051: 1, H0510:	H0375: 1, S0003:	H0328: 1, H0428:	H0039: 1, H0622: 1	.0483: 1
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H0553:	H0628:	S0364:	H0598:	H0087:	T0067:	H0623:	L0475:	H0509:	H0641:	S0426:	L0770: 1,	L0627: 1, 1	L0773: 1	L0768: 1	L0527: 1	L0789: 1	S0428: 1	H0519:	H0659:	H0518:	H0134:	L0745:	10779:	L0589:	1, 1, 1, 1, 1,	S0026:	S0242:		
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	Ile-1 to Lys-7,	Gly-13 to Lys-19,	Pro-59 to Arg-76.	Val-50 to Arg-56.	Leu-41 to Ser-52.							Asp-48 to Thr-54,	Glu-57 to Ser-63.															
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_	HOOIG71			HOOIK04	HOOIL33	HOOIO53	HOOIR94	HOOJA64	HOOJB36	HOOJE93	HOOJK91	HOOJN84																

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L0749: 4, L0750: 4,	L0755: 4, H0663: 3,	S0418: 3, H0619: 3,	L0717: 3, H0013: 3,	L0163: 3, H0553: 3,	H0090: 3, L0763: 3,	L0770: 3, L0766: 3,	L0774: 3, L0664: 3,	L0665: 3, H0519: 3,	H0521: 3, L0742: 3,	L0591: 3, S0276: 3,	H0171: 2, H0341: 2,	S0356: 2, S0360: 2,	H0393: 2, S0300: 2,	H0156: 2, H0150: 2,	H0011: 2, H0687: 2,	S0003: 2, H0328: 2,	L0483: 2, H0634: 2,	H0494: 2, H0560: 2,	H0561: 2, H0646: 2,	L0638: 2, L0646: 2,	L0374: 2, L0764: 2,	L0776: 2, L0655: 2,	L0657: 2, H0520: 2,	H0660: 2, H0134: 2,	L0605: 2, L0593: 2,	H0542: 2, S6024: 1,	H0583: 1, S0116: 1,	H0483: 1, S0420: 1,	S0358: 1, S0408: 1,
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H0580: 1, S0045: 1,	H0440: 1, H0431: 1,	T0104: 1; H0600: 1,	H0632: 1, H0559: 1,	H0485: 1, H0069: 1,	S0280: 1, L0021: 1,	H0042: 1, H0706: 1,	H0505: 1, H0581: 1,	10421: 1, H0052: 1,	.0471: 1, S0051: 1,	H0266: 1, H0267: 1,	S0316: 1, H0028: 1,	H0252: 1, H0615: 1,	H0644: 1, H0169: 1,	H0598: 1, H0163: 1,	H0038: 1, H0372: 1,	H0412: 1, H0413: 1,	H0623: 1, T0004: 1,	S0372: 1, S0448: 1,	30440: 1, S0150: 1,	S0344: 1, S0422: 1,	.0598: 1, L0369: 1,	.0520: 1, L0762: 1,	.0761: 1, L0648: 1,	.0521: 1, L0363: 1,	.0649: 1, L0650: 1,	.0523: 1, L0806: 1,	.0653: 1, L'0606: 1,	.0661: 1, L0527: 1,	,0809: 1, H0658: 1,
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H0672: 1, S0330: 1,	S0152: 1, H0696: 1,	S0406: 1, H0555: 1,	H0478: 1, S0432: 1,	L0786: 1, S0260: 1,	H0445: 1, L0366: 1,	S0026: 1, H0667: 1,	H0423: 1, S0424: 1,	S0446: 1 and H0008: 1.		H0648: 2, H0436: 2,	L0748: 2, S0360: 1,	L0766: 1, L0803: 1 and	L0779: 1.					H0486: 1 and H0648:		L0731: 2, H0483: 1,	1.0007: 1, 1.0039: 1,	H0562: 1, L0/69: 1,	L0766: 1, H0670: 1,	H0648: 1, L0756: 1,	L0755: 1, L0758: 1, 1.0759: 1 and 1.0485: 1.		
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	•								HOOJP58R	HOOJR60R				HOOJR72R	HOOJS84R	HOOJT32R	HOOJT65R	HOOJV78R	HOOJX42R	HOOJX80R						HOOJY17 HOOJY17R	
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	Gln-1 to Cys-7,	Asn-14 to Lys-22,	Arg-29 to Leu-34,	Glu-46 to Leu-54.	Ala-1 to Pro-6,	Ala-22 to Glu-27,	Glu-36 to Ser-45,	Glu-62 to Gly-67,	Gln-74 to Phe-83,	Thr-90 to Ser-96,	His-105 to Pro-116.	•				4					,			,					
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1635	1636				1637		,					1638							•		,	,					·		
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H0318: 3, H0510: 3,	H0266: 3, H0553: 3,	H0591: 3, H0040: 3,	H0634: 3, S0150: 3,	_0803: 3, L0657: 3,	H0435: 3, S0152: 3,	_0740: 3, L0747: 3,	S0436: 3, L0588: 3,	H0556: 2, S0116: 2,	H0663: 2, S0356: 2,	S0354: 2, S0376: 2,	30046: 2, H0393: 2,	10642: 2, H0574: 2,	T0109: 2, H0635: 2,	S0010: 2, T0110: 2,	H0012: 2, H0083: 2,	30214: 2, H0038: 2,	T0041: 2, T0042: 2,	H0494: 2, H0647: 2,	S0422: 2, S0002: 2,	.0554: 2, H0660: 2,	H0518: 2, S0406: 2,	.0593: 2, H0667: 2,	H0624: 1, H0171: 1,	H0159: 1, S0114: 1,	H0656: 1, H0484: 1,	10661: 1, H0664: 1,	H0450: 1, S0442: 1,	S0045: 1, H0619: 1,	H0550: 1, S0222: 1,
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0586	0040	6900	900	0581	9049	0115	0572	0620	5028	0520	0615	0622	0316	0616	9005	)112:	0429	0625	020	0633	)426:	0080	3773:	3663	148:	0593	0670	0648	330:
1, H	1, T	1, H	1, H	1, H	1, S	1, T	1, H	1, H	1, S.	1, H(	1, H	1, H	1, H	1, H	1, H	1, S(	1, H	1, H	1, H	1, H	1, S(	1, L	1, L	1, L	1, SC	1, H	1, H	1, H	1, SC
H0600: 1, H0586:	0039: 1, T0040:	H0244: 1, H0069:	H0575: 1, H0004:	S0665: 1, H0581:	H0421: 1, S0049:	H0052: 1, T0115:	H0327: 1, H0572:	H0050: 1, H0620:	355:	S0316: 1, H0290:	H0286: 1, H0615:	039	H0031: 1, H0316: 1,	S0036: 1, H0616:	H0412: 1, H0056: 1,	S0038: 1, S0112: 1	H0128: 1, H0429: 1	H0334: 1, H0625:	H0386: 1, H0509:	H0641: 1, H0633:	S0210: 1, S0426:	.0761: 1, L0800:	.0764: 1, L0773:	.0775: 1, L0663:	S0006: 1, S0148: 1	.0438: 1, H0593:	H0689: 1, H0670:	H0666: 1, H0648: 1,	S0328: 1, S0330:
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S0378: 1, H0696: 1, H0134: 1, H0555: 1, S0037: 1, S0206: 1, L0749: 1, S0031: 1, S0260: 1, H0445: 1, S0434: 1, L0599: 1, L0594: 1, H0422: 1 and S0456: 1.			H0657: 3, L0717: 2, H0421: 2, L0766: 2,	L0666: 2, L0756: 2,	L0759: 2, H0717: 1,	H0587: 1, H0156: 1,	L0021: 1, H0581: 1,	H0014: 1, H0252: 1,	S0422: 1, L0662: 1,	L0794: 1, L0655: 1,	L0809: 1, L0543: 1,	L0791: 1, L0665: 1,	H0658: 1, H0670: 1,	H0648: 1, H0672: 1,	H0696: 1, L0780: 1,	S0434: 1 and H0506: 1.			L0775: 5, L0776: 5,	L0747: 5, L0604: 5,	L0769: 4, L0805: 4,
		Asp-1 to Lys-22.													•	•	Pro-20 to Gly-38.		Gly-69 to Glu-78.		
	3814	3815	3816														3817	3818	3819		
	107 - 367	118 - 453	210 - 344														14 - 196	107 - 571	207 - 461		
	1639	1640	1641														1642	1643	1644		
	HOOKK83 HOOKK83R	HOOKN43R	HOOKN71 HOOKN71R														HOPJA09R	HOPJF95R	HOPJG60R		
	HOOKK83	HOOKN43	HOOKN71														HOPJA09	HOPJF95	HOPJG60		

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L0777: 3, L0759: 3, L0774: 2, L0809: 2, L0758: 2, H0341: 1, H0484: 1, S0358: 1, S0444: 1, S0360: 1, S6026: 1, S0278: 1, H0156: 1, H0102: 1, L0770: 1, L0766: 1, L0804: 1, L0657: 1, L0789: 1, H0684: 1, H0696: 1, S0044: 1,	H0547: 41, L0751: 26, H0520: 18, S0344: 12, L0731: 11, T0006: 9, L0794: 9, L0753: 8, L0809: 6, H0135: 5, S0142: 5, L0800: 5, L0665: 5, L0743: 5, L0747: 5, H0024: 4, S0328: 4, L0759: 4, H0661: 3, H0594: 3, H0617: 3, L0657: 3, H0658: 3, H0666: 3, L0750: 3, L0752: 3, H0658: 3, H0666: 3, H0658: 3, H0666: 3, H0658: 3, H0664: 2, H0652: 3, H0641: 2, H0662: 2, H0041: 2,
	Pro-4 to Ser-29, Pro-31 to Ser-38.
	3820
	2 - 136
	1645
	HOPJG66R
·	HOPJG66

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H0050: 2, H0099: 2.	H0494: 2, S0002: 2,	L0769: 2, L0806: 2,	L0517: 2, L0382: 2,	H0684: 2, H0660: 2,	H0539: 2, S0152: 2,	L0748: 2, L0587: 2,	L0595: 2, H0294: 1,	H0656: 1, H0484: 1,	H0669: 1, H0208: 1,	H0619: 1, H0586: 1,	H0333: 1, H0427: 1,	H0052: 1, H0251: 1,	H0546: 1, H0545: 1,	H0012: 1, H0688: 1,	H0181: 1, H0606: 1,	H0334: 1, H0646: 1,	S0144: 1, S0426: 1,	L0762: 1, L0640: 1,	L0763: 1, L0637: 1,	L0662: 1, L0386: 1,	L0803: 1, L0804: 1,	L0774: 1, L0378: 1,	L0805: 1, L0629: 1,	L0558: 1, L0659: 1,	H0689: 1, H0648: 1,	S0330: 1, S0332: 1,	H0436: 1, H0540: 1,	S0028: 1, L0744: 1,
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L0755: 1, L0757: 1,	L0758: 1 and S0276: 1.					S0412: 22, L0662: 19,	L0777: 14, S0010: 11,	S0222: 9, S6028: 9,	L0750: 9, T0010: 8,	L0659: 8, L0747: 8,	L0756: 8, L0663: 7,	L0439: 7, H0051: 6,	L0518: 6, L0754: 6,	L0752: 6, S0280: 5,	H0575: 5, S0358: 4,	S0346: 4, L0753: 4,	H0170: 3, H0662: 3,	S0360: 3, H0427: 3,	L0471: 3, H0373: 3,	L0638: 3, L0637: 3,	L0764: 3, L0774: 3,	L0809: 3, L0666: 3,	S0310: 3, H0672: 3,	H0696: 3, L0731: 3,	H0506: 3, H0713: 2,	S0408: 2, H0411: 2,	H0455: 2, H0574: 2,	S0414: 2, H0486: 2,
		Ala-83 to Arg-91,	Trp-99 to Tyr-105, Tyr-123 to Glu-128	Gly-2 to Ala-13.						-													-					
		3821		3822	3823	3824																						
		3 - 542	,	166 - 597	321 - 464	148 - 285	•			,											<del></del>							
		1646		1647	1648	1649												•										
		HOPJG79R		HOPJG89R	HOPJH17R	HOPJH38R																						
		HOPJG79		HOPJG89	HOPJH17	HOPJH38																						

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49: 2,	127: 2,	128: 2,	4.2,	.0520: 2,	L0770: 2,	.0517: 2,	42: 1,	L0443: 1,	82: 1,	61:1,	56: 1,	29: 1,	19: 1,	00: 1,	22: 1,	592: 1,	599: 1,	590: 1,	309: 1,	H0563: 1,	123: 1,	50: 1,	88: 1,	328: 1,	339: 1,	31: 1,	169: 1,	55: 1,	163: 1,
H0036: 2, S0049: 2,	H0052: 2, H0327: 2,	H0687: 2, H0428: 2,	H0553: 2, H0644:		.0762: 2, L.07		S0044: 2, L0442:	_	S0110: 1, S0282:	S0400: 1, H0661:	30348: 1, S0356:	S0444: 1, H0329:	S0007: 1, H0619:	S6026: 1, S0300:	.0717: 1, S6022:	H0550: 1, H0592:	HO587: 1, H0599:	H0042: 1, H0590:	H0318: 1, H0309:	HO545: 1, HO5	H0564: 1, H0123:	H0019: 1, S0050:	J0163: 1, S0388:	H0356: 1, H0328:	H0688: 1, H0039:		HO111: 1, H0169:	S0364: 1, L0455:	H0135: 1, H0163:
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T0067: 1, T0069: 1,	T0004: 1, H0100: 1,	S0112: 1, L0370: 1,	L0598: 1, L0769: 1,	L0630: 1, L0800: 1,	L0648: 1, L0363: 1,	L0768: 1, L0649: 1,	L0803: 1, L0775: 1,	L0375: 1, L0651: 1,	L0784: 1, L0523: 1,	L0805: 1, L0776: 1,	L0527: 1, L0657: 1,	L0635: 1, L0783: 1,	<u> </u>	L0664: 1, H0691: 1,	T0068: 1, S0148: 1,	H0693: 1, H0520: 1,	H0593: 1, H0689: 1,	H0684: 1, S0330: 1,	S0380: 1, S0174: 1,	H0555: 1, L0612: 1,	L0743: 1, L0748: 1,	L0751: 1, L0749: 1,	L0779: 1, L0759: 1,	٠	S0106: 1 and S0021: 1.		S0010: 1, H0327: 1,
									-					ŕ									•			Ala-1 to Gly-11,	Pro-20 to Glu-25,
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																	:				*			•		1650	1651
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H0039: 1, H0622: 1,	S0464: 1, L0803: 1,	H0684: 1 and H0670: 1.	L0665: 7, L0747: 7,	1.0662: 6, 1.0766: 6,	L0655: 5, L0659: 5,	S0126: 5, L0717: 4,	H0370: 4, L0763: 4,	L0770: 4, L0646: 4,	H0521: 4, L0748: 4,	S0360: 3, H0009: 3,	S0142: 3, S0344: 3,	L0771: 3, L0774: 3,	L0775: 3, L0663: 3,	L0664: 3, L0740: 3,	L0751: 3, L0750: 3,	L0758: 3, L0601: 3,	H0265: 2, H0657: 2,	80418: 2, 80420: 2,	S0045: 2, T0039: 2,	H0024: 2, T0010: 2,	H0413: 2, S0144: 2,	S0210: 2, L0667: 2,	L0372: 2, L0642: 2,	L0383: 2, L0666: 2,		L0754: 2, L0756: 2,	L0731: 2, L0599: 2,	H0543: 2, L0615: 1,
Lys-31 to Gly-36.	•		Phe-15 to Ser-22.			•																	•			•		
			3827	•		,										•												
			78 - 269													-												
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7295: 1,	656: 1,	282: 1,	)661: 1,	354: 1,	376: 1,	1222: 1,	l, H0586: 1,	7250: 1,	)318: 1,	052:1,	327: 1,	083: 1,	022: 1,	1092: 1,	483: 1,	030: 1,	0181: 1,	0900: 1,	l, L0351: 1,	)494: 1,	065: 1,	640: 1,	L0772: 1,	L0374: 1,	L0773: 1,	L0626: 1,	649: 1,	378: 1,	776: 1,
H0556: 1, H0295: 1	S0114: 1, H0656:	L0778: 1, S0282: 1	0255: 1, Ho	10402: 1, S0354:	S0358: 1, S0376:	H0351: 1, S0222: 1	H(10000: 1, H(	H0333: 1, H0250: 1	70082: 1, H0318:	H0421: 1, H0052:	.0738: 1, H0327:	H0051: 1, H0083:	S0003: 1, S0022:	S0214: 1, H0092:	F0023: 1, L0483:	70006: 1, H0030:	H0628: 1, H0181:	H0169: 1, H0090:	H0058: 1, LC	F0041: 1, H0494:	S0015: 1, L0065:	S0426: 1, L0	.0769: 1, LO	.0641: 1, L0	.0764: 1, L0	.0648: 1, L0	.0768: 1, L0649:	7784: 1, LC	.0806: 1, L0776: 1
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L0807: 1, L0657: 1, L0656: 1, L0783: 1, S0052: 1, S0428: 1, L0438: 1, H0547: 1, H0690: 1, H0670: 1, H0660: 1, H0670: 1, H0560: 1, H0672: 1, H0522: 1, H0187: 1, H0576: 1, S0027: 1, S0206: 1, L0743: 1, L0757: 1, L0605: 1, L0590: 1, L0591: 1, L0581: 1, L0595: 1, S0026: 1, H0665: 1, H0667: 1, H0542: 1, H0667: 1, H0542: 1.	H0445: 13, H0255: 11, L0666: 7, H0575: 5, H0059: 4, S0344: 4, L0655: 4, H0521: 4, H0522: 4, L0748: 4, L0751: 4, H0556: 3, S0278: 3, H0013: 3, H0181: 3, H0617: 3, S0142: 3, H0658: 3, H0660: 3, L0439: 3, H0423: 3, S0116: 2, H0341: 2, S0360: 2, H0580: 2, H0581: 2, H0014: 2, H0087: 2,
	Arg-5 to His-22, Ser-59 to Ala-69.
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	1653
	HOPJX48R
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, L0664	, H068	, L0743	H017,	, H058.	l, H065	, H025	l, H066	, S0408	l, H039	l, H033	, H010	l, H042	, H025	, H042]	l, H015	l, H002	l, H055	l, H067	, H016	l, H061	l, H002	1, L064	, L0769:		, L0659	, H014	l, H069	l, H069	l, L074
.0663: 2, L0664: 2,	.0665: 2, H0684: 2,	.0741: 2, L0743: 2,	H0170: 1, H0171:	10265: 1, H0583:	H0657: 1, H0656:	.0470: 1, H0254:	H0664: 1, H0662: 1,	S0420: 1, S0408:	H0393: 1, H0392:	H0333: 1, H0333:	.0622: 1, H0101:	H0250: 1, H0427:	J0021: 1, H0253:	30346: 1, H0421:	H0596: 1, H0150:	H0620: 1, H0024:	H0428: 1, H0553:	H0169: 1, H0674:	30366: 1, H0163:	H0040: 1, H0616: 1,	H0063: 1, H0026:	H0517: 1, L0640: 1,	.0770: 1,	.0761: 1, L.0773:	.0559: 1, L0659:	.0790: 1, H0144:	H0593: 1, H0690:	H0709: 1, H0696: 1,	H0187: 1, L0744:
	<u>.e.l</u>	<u> </u>	<u>بلن</u>	<u> </u>	<u>بلز</u>	<u> ر</u>	<u>144</u>	S	<u> </u>	<u>14</u>	브	<u> </u>	<u> </u>	S	<u> </u>	<u> </u>	<u>. 141.</u>	<u>. i-l-i</u>	S	<u>بلر</u>	<u> </u>	<u> </u>			<u> </u>	<b> </b>	<u> </u>	<u>بالو</u>	<u>, 11</u>
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S0031: 1 and H0543: 1.			AR096: 4, AR089: 3,	AR061: 1, AR055: 1,	AR060: 1, AR104: 1	H0684: 2 and L0731:	1.										٠.					H0494: 6, H0556: 5,	H0265: 3, H0656: 3,	H0618: 3, H0295: 2,	H0255: 2, H0392: 2,	H0575: 2, H0253: 2,	H0052: 2, H0024: 2,	H0617: 2, H0087: 2,
		Pro-35 to Arg-48.	Arg-19 to Tyr-24,	Asp-75 to Glu-87,	Asn-102 to Cys-109, AR060: 1, AR104:	Ser-113 to Lys-118,	Tyr-154 to Ser-169.	Leu-39 to Ser-51.	Ser-50 to Pro-57.	Asn-80 to Gly-86.	Pro-6 to Thr-34,	Asp-57 to Gly-62,	Gly-77 to Glu-83,	Lys-108 to Asp-116,	Met-145 to Arg-159.	Ser-72 to Ala-78,	Asp-94 to Gly-100,	Thr-104 to Asp-111,	Ser-117 to Arg-133,	Glu-138 to Lys-144,	Lys-158 to Asp-165.	Ser-33 to Pro-42,	Lys-53 to Cys-61.					
	3829	3830	3831	`				3832	3833	3834	3835					3836						3837						
	273 - 395	2 - 163	2 - 676	•		,		26 - 232	3 - 191	1 - 456	1 - 579					1 - 663						3 - 455						
	1654	1655	1656					1657	1658	1659	1660					1661						1662						
	HOPJY50R	HOPJZ59R	HOPKA06R					HOPKC65R	HOPKD31R	HOPKG16R				,		HOPKG83R						HOPKK38R						
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547: 2,	744: 2,	136: 2,	224: 1,	585: 1,	341: 1,	483: 1,	418: 1,	108: 1,	)45: 1,	550: 1,	587: 1,	643: 1,	559: 1,	486: 1,	048: 1,	309: 1,	081: 1,	012: 1,	051: 1,	l, H0071: 1,	, H0354: 1,	l, H0266: 1,	271: 1,	428: 1,	181: 1,	090: 1,	488: 1,	100: 1,	140: 1,
.0565: 2, H0547: 2,	H0521: 2, L0744: 2,	.0439: 2, H0136: 2,	10543: 2, H0224:	H0225: 1, H0585:	S0114: 1, H0341:	H0484: 1, H0483:	1:1,50	S0354: 1, S0408: 1	S0007: 1, S0045:	H0261: 1, H0550:	H0586: 1, H0587:	7: 1, H0	H0257: 1, H0559:	5: 1, H0486: 1	6: 1, T00	F0071: 1, H0309:	11: 1, HO	0: 1, H0012:	H0620: 1, H0051:		3: 1, HO	4: 1, H0	H0179: 1, H0271:	H0292: 1, H0428:	H0424: 1, H0181:	H0135: 1, H0090:	H0063: 1, H0488:	H0433: 1, H0100:	70041: 1, S0440:
L056	H052	1043	H054	H022	S011	H048	H067	S035	S000	H026	H058	H049	H025	H0485:	S0346: 1	T007	H004	H0050: 1	H062	S0388: 1	H0083:	H0594: 1	H017	H029	H042	H013	900H	H043	T004
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S0142: 1, H0538: 1, L0769: 1, L0764: 1, L0803: 1, L0809: 1, H0593: 1, H0683: 1, H0684: 1, H0435: 1, S0044: 1, L0747: 1, S0031: 1, H0445: 1, L0593: 1 and L0601: 1.			L0803: 6, L0731: 4,	S0440: 3, L0662: 3,	.0809: 3, L0665: 3,	S0276: 3, H0486: 2,	10318: 2, L0794: 2,	.0805: 2, L0776: 2,	.0663: 2, H0684: 2,	.0740: 2, L0759: 2,	L0592: 2, H0624: 1,	.0448: 1, H0341: 1,	S0282: 1, H0663: 1,	30360: 1, H0580: 1,	.0468: 1, H0587: 1,	H0427: 1, H0575: 1,	S0010: 1, L0471: 1,	H0644: 1, H0383: 1,	H0169: 1, L0456: 1,	H0090: 1, H0264: 1,
	Gly-63 to Ala-69, Gly-104 to Leu-110, Gly-130 to Gly-136.			<u> </u>		<u> </u>														Ħ
	3838	3839	3840						_			•		·····						
	2 - 460	22 - 483	170 - 319				-		•		•		7	•	_					
	1663	1664	1665									٠								
	HOPKN14R	HOPKN67R	НОРКО04 НОРКО04КА																-	
	HOPKN14	HOPKN67	HOPKO04		,															

H0412: 1, H0561: 1, S0150: 1, S0002: 1, H0529: 1, L0638: 1, L5565: 1, L0372: 1, L0649: 1, L0388: 1, L0789: 1, L0793: 1, H0519: 1, L0791: 1, H0522: 1, H0436: 1, L0747: 1, L0752: 1, L0757: 1, L0599: 1, H0542: 1, H0543: 1 and					•	L0439: 15, L0666: 8,	L0638: 3, L0805: 3,	L0664: 3, L0758: 3, 1 0592: 3, S0010: 2	L0770: 2, L0438: 2,	H0624: 1, H0170: 1,	S6024: 1, H0441: 1,	S0414: 1, H0052: 1, H0572: 1, S6028: 1,
			Ser-19 to Arg-29, Asp-37 to Val-43, Ala-75 to Leu-80,	Thr-96 to Arg-111.			,					
	3841	3842	3843	٠	3844	3845						
	1 - 405	282 - 536	19 - 402		1 - 519	3 - 173						
_	1666	1667	1668		1669	1670						
		HOPKP45R	HOPKQ20R	·	HOPKQ82R	HOPKR56R						
	HOPKO61	HOPKP45	НОРКQ20		HOPKQ82	HOPKR56						

H0688: 1, H0616: 1, L0769: 1, L0768: 1, L0803: 1, L0774: 1, L0776: 1, L0659: 1, L0792: 1, H0519: 1, H0684: 1, L0745: 1, L0747: 1, L0756: 1, L0786: 1, L0753: 1, L0731: 1, L0759: 1 and L0366: 1.			L0794: 16, L0809: 6, S0360: 4, H0617: 3,	L0803: 3, S0114: 2,	H0288: 2, H0688: 2,	H0494: 2, L0375: 2,	L0731: 2, L0588: 2,	H0556: 1, S0134: 1,	H0484: 1, S0420: 1,	H0637: 1, H0441: 1,	H0370: 1, H0438: 1,	H0592: 1, T0109: 1,	S0010: 1, H0150: 1,	H0009: 1, H0081: 1,	H0271: 1, H0428: 1,	S0368: 1, H0424: 1,	H0181: 1, H0124: 1,	S0438: 1, S0440: 1,
		Gly-1 to Val-7.	Pro-7 to Trp-14.															,
	3846	3847	3848						,									
	2 - 274	2 - 136	237 - 551	-	-								,					,
	1671	1672	1673					,										
	HOPKU33R	HOVBH23R	HOVBK37 HOVBK37R				:											
	HOPKU33	HOVBH23	HOVBK37															

																												-
											•																	
S0144: 1, S0142: 1,	S0344: 1, L0637: 1,	L5566: 1, L0761: 1,	L0764: 1, L0648: 1,	L0662: 1, L0364: 1,	L0766: 1, L5574: 1,	L0805: 1, L0783: 1,	L0647: 1, L0789: 1,	L0665: 1, H0520: 1,	H0547: 1, H0670: 1,	H0660: 1, H0648: 1,	S0380: 1, H0521: 1,	H0555: 1, S3012: 1,	L0748: 1, L0779: 1,	L0780: 1, L0757: 1,	L0759: 1 and H0352: 1.				S0360: 2, H0497: 2,	H0333: 1, H0004: 1,	H0428: 1, H0674: 1,	S0422: 1, L0763: 1,	L0803: 1, H0648: 1 and	S0276: 1.				
																His-7 to Lys-20.	Glu-13 to Trp-32, Pro-34 to Asn-45					•			Gly-1 to Glu-7,	Gly-29 to Ala-36.		Lys-63 to Ser-69,
	,	•								,						3849	3850	3851	3852						3853		3854	3855
							,									3-86	144 - 404	41 - 349	342 - 524						2 - 127		395 - 580	3 - 578
												-				1674	1675	1676	1677						1678		1679	1680
																HOVBK49R	HOVBS15R	HOVBX41R	HOVCL23R	-					HOVCN03R		HOVCO26 HOVCO26R	HOVCU89 HOVCU89R
															,	HOVBK49	HOVBS15	HOVBX41	+						HOVCN03		HOVCO26	HOVCU89

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			H0615.2 1 0748.2	007: 1	0.41.1	041: 1 269: 1	200: 1	688: I	622: 1	L0768: 1	526: 1	565: 1	H0519: 1	S0390: 1,	l, L0749: 1	588: 1	and L0593: 1	:										
-			1 6 3	1. S0		., ∃, ±	1, 50 1, 50	1, HO	<del>ب</del>	Ŧ,	1.10	1, LO	1, H0	ij	_	1, 10	1 and											
			H061	H0656: 1. S0007:	70701	H0486: 1, H0041:	HU355: 1, SU25U:	S0003: 1, H0688:	H0428:	r0042:	.0657:	H0702: 1, L0565:	H0547: 1	S0152:	.0745: 1	L0779: 1, L0588: 1	.0608:					,	·					
02,	-111.	1, 37.			( <u> -</u>			<u>.</u>	<u> </u>	Ę.	<u> </u>	_===		<u>V</u>		.—			7.									
His-1	o Leu	Tyr-2 Arg-		•															Arg-3'						Lys-6			Fyr-8,
Tyr-95 to His-102,	Tyr-105 to Leu-11	Ser-15 to Tyr-21, Gly-32 to Arg-37																	Ile-32 to Arg-37.						Asp-1 to Lys-6.			Pro-1 to Tyr-8,
Ty	Ty		$t^{-}$												<del></del>			_				_	_		$\vdash$	lacksquare		
		3826	3857	) }														3858	3859	3860	3861	3862	3863	3864	3865	3866	3867	3868
		1 - 471	2-226	 }														-551	53 - 220	110 - 289	34 - 204	1 - 270	37 - 498	24 - 257	253 - 393	92 - 184	74 - 154	3 - 365
		1 -	2	١.														333	53 -	110	34 -	-1	37 -	- 54	253	- 26	74 -	3-
		1681	1682															1683	1684	1685	1686	1687	1688	1689	1690	1691	1692	1693
<u> </u>		/33R	V45R	1		•												768R	745R	343R	361R	362R						
		HOVCV33 HOVCV33R	HOVCW45 HOVCW45R	) -												×.		HOVCY68 HOVCY68R	HOVCZ45 HOVCZ45R	HOVDB43 HOVDB43R	HOVDB61 HOVDB61R	HOVDB62 HOVDB62R	HOVDB65 HOVDB65R	HOVDD26 HOVDD26R	OVDE	HOVDG60 HOVDG60R	HOVDG71 HOVDG71R	HOVDH09 HOVDH09R
-		3 H	5 H(	}									······································					H 8	E E	3 H	1 H	2 H	5 H	H 9	H 9	)H 0	$1$ $\overline{\text{H}}$	H 6
		VCV3	JCWA	- : )														VCY6	VCZ4	VDB4	VDB6	VDB6	VDB6	VDD2	VDE4	VDG6	VDG7	VDH0
		НО	E	}														임	HOH.	유	H	H H	H	H	HO	HO	HOH	HOH

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						L0794: 10, L0803: 7,	LU/4/: 6, HU65/: 5,	H0597: 4, H0617: 4,	L0764: 4, L0809: 4,	L0758: 4, L0759: 4,	L0800: 3, L0804: 3,	L0775: 3, H0659: 3,	H0543: 3, H0231: 2,	L0471: 2, H0673: 2,	H0674: 2, L0763: 2,	L0770: 2, L0769: 2,	L0768: 2, L0649: 2,	L0375: 2, L0776: 2,	H0658: 2, L0750: 2,	L0779: 2, L0755: 2,	L0731: 2, L0757: 2,	L0596: 2, L0588: 2,	S0026: 2, H0170: 1,	H0483: 1, H0661: 1,	H0402: 1, H0459: 1,	S0360: 1, H0639: 1,	L0717: 1, H0392: 1,	H0607: 1, H0333: 1,	H0486: 1, H0318: 1,
Gln-14 to Gln-19,	Arg-25 to Glu-37,	Asn-44 to Arg-50,	Glu-67 to Leu-75,	Thr-105 to Gly-114.										-						•									
					3869	3870							-																
					43 - 348	3 - 233			•		_		•												•				
	·				1694	1695				٠				,							-								,
٠					HOVDH75R	HOVDU91 HOVDU91R																-							
					HOVDH75	HOVDU91																							

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H0251: 1, H0184: 1, H0045: 1, H0014: 1, S0388: 1, S0051: 1, H0594: 1, H0188: 1, H0328: 1, H0428: 1, H0181: 1, H0032: 1, H0413: 1, H0561: 1, S0372: 1, H0647: 1, S0144: 1, S0002: 1, H0026: 1, L0774: 1, L065: 1, L0656: 1, L0659: 1, L0656: 1, L0659: 1, L0656: 1, L0659: 1, L0656: 1, L0659: 1, L0665: 1, S0428: 1, H0689: 1, H0670: 1, H0539: 1, S0013: 1, S0174: 1,	L0752: 1, H0445: 1, L0608: 1, L0595: 1 and H0136: 1.	L0752: 3, L0731: 3, L0747: 2, L0753: 2, H0265: 1, S0116: 1, S0420: 1, H0428: 1, L0769: 1, L0767: 1,
	·	Ile-12 to Gln-17.
		3871
		60 - 293
		1696
		HOVDV70 HOVDV70R
		HOVDV70

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•		•						i :																				
L0766: 1, L0775: 1,	L0776: 1, H0555: 1,	L0742: 1, L0748: 1,	L0757: 1 and L0759: 1.	H0428: 1 and S3014: 1.	H0428: 2				S0474: 66, L0439: 16,	H0547: 15, L0748: 15,	L0731: 10, S0360: 9,	L0770: 9, S0408: 8,	S0358: 7, L0771: 7,	L0775: 7, L0747: 6,	L0592: 6, H0428: 5,	S0438: 5, L0659: 5,	L0664: 5, L0665: 5,	L0752: 5, L0757: 5,	H0506: 5, S0007: 4,	H0549: 4, S0440: 4,	L0769: 4, L0768: 4,	L0774: 4, L0663: 4,	H0519: 4, S0152: 4,	L0750: 4, L0779: 4,	L0755: 4, L0759: 4,	L0591: 4, L0595: 4,	S0444: 3, H0510: 3,	H0615: 3, H0551: 3,
				Tyr-22 to Ala-28.	Gly-40 to His-48.		Ala-20 to Gln-25.	Ser-7 to Trp-13, Phe-19 to Ala-25.													•							
				3872	3873	3874	3875	3876	3877																			
				64 - 264	99 - 257	247 - 396	169 - 363	410 - 589	3 - 143																			
				1697	1698	1699	1700	1701	1702																			
٠				HOVDW60 HOVDW60R	HOVDZ66 HOVDZ66R	HOVEA43R	HOVEB25 HOVEB25R	HOVEE84 HOVEE84R	HOVEE92R																			
				HOVDW60	HOVDZ66	HOVEA43	HOVEB25	HOVEE84	HOVEE92	)																		

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H0100: 3, L0598: 3,	0638: 3, 1.0766: 3,	380: 3, L0594: 3,	H0341: 2, S0420: 2,	S0442: 2, H0722: 2,	.0717: 2, H0550: 2,	S0222: 2, H0587: 2,	H0574: 2, H0632: 2,	H0013: 2, H0575: 2,	H0581: 2, H0544: 2,	H0012: 2, H0687: 2,	H0628: 2, S0036: 2,	)509: 2, L0637: 2,	764: 2, L0773: 2,	J0803: 2, L0375: 2,	L0806: 2, L0783: 2,	1666: 2, H0520: 2,	H0684: 2, H0659: 2,	)521: 2, L0745: 2,	L0756: 2, S0436: 2,	)596: 2, L0593: 2,	)362: 2, S0194: 2,	H0543: 2, H0624: 1,	H0170: 1, H0171: 1,	H0717: 1, H0657: 1,	H0671: 1, H0663: 1,	)664: 1, H0459: 1,	S0356: 1, S0410: 1,	H0637: 1, S0476: 1,	H0645: 1, S6026: 1,
)H	0,1	SO	H	OS .	3	<u>S</u>	H	H	H	HC	H	H	3	2	3	27	H	H		97]	971	H	H	H	Ħ	H	SO	H	H
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1, H0369:	H0431: 1, H0586:	H0497: 1, H0331:	1, S0049:	: 1, L0738:	H0545: 1, H0046:	H0563: 1, H0123:	H0050: 1, L0471:	H0620: 1, H0014:	S0388: 1, S0051: 1	H0356: 1, H0266:	1, H0039:	H0622: 1, T0006:	H0617: 1, S0366:	H0090: 1, H0040:	H0616: 1, S0038:	1, H0494:	S0014: 1, S0150: 1	1, L0640:	.0763: 1, L5565:	1, L0373:	0372: 1, L0646:	1, L0662:	1, L0651:	.0652: 1, L0776:	.0527: 1, L0657:	.0526: 1, L0384:	.0809: 1, L0545:	.0790: 1, L0792:	H0144: 1, L0438:
S0300:	H0431	H0497	L0021:	H0184	H0545	H0563	H0050	H0620	S0388:	H0356	S0003: 1	H0622	H0617	H0090	H0616	T0041: 1	S0014:	L0369: 1	L0763:	L0761: 1	L0372:	L0521: 1	L0804: 1	L0652:	L0527:	L0526:	F0803:	1.0790:	H0144
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H0682: 1, S0126: 1, H0682: 1, H0660: 1, H0648: 1, S0328: 1, H0539: 1, S0378: 1, S0350: 1, H0696: 1, S0028: 1, S0206: 1, L0740: 1, L0777: 1, L0758: 1, S0434: 1, H0217: 1, S0192: 1, S0412: 1 and S0456: 1.		L0750: 11, L0740: 7,	L0747: 5, H0341: 4,	L0757: 4, H0641: 3,	L0766: 3, L0748: 3,	L0754: 3, L0752: 3,	L0593: 3, H0171: 2,	S0134: 2, S0442: 2,	S0010: 2, H0428: 2,	H0538: 2, L0770: 2,	L0774: 2, L0776: 2,	L0517: 2, L0438: 2,	H0519: 2, H0684: 2,	L0777: 2, L0755: 2,	L0731: 2, L0758: 2,	S0026: 2, H0170: 1,	T0002: 1, S0114: 1,	S0116: 1, H0663: 1,	S0358: 1, S0360: 1,	S0007: 1, S0046: 1,
		Gln-4 to Gln-10,	Lys-35 to Ala-60,	Pro-66 to Ser-79.																
	3878	3879																		
	288 - 497	1 - 393		•				•								,				
	1703	1704																•	,	
	HOVEF34R	HOVEF81R													,					
	HOVEF34	HOVEF81	·					,					•							

H0411: 1, H0592: 1, H0486: 1, H0013: 1, L0022: 1, H0575: 1, H0581: 1, H0052: 1, H0620: 1, H0594: 1, H0620: 1, H0038: 1, H0090: 1, H0038: 1, L0475: 1, L0520: 1, L0662: 1, L0521: 1, L0662: 1, L0521: 1, L0662: 1, L0521: 1, L0662: 1, L0521: 1, L0662: 1, L0651: 1, L0661: 1, L0783: 1, L0661: 1, L0783: 1, H0670: 1, S0330: 1, H0670: 1, H0689: 1, H0670: 1, H0648: 1, H0670: 1, H0648: 1, L0605: 1, H0648: 1,		L0809: 8, L0794: 5, L0439: 5, L0758: 5, H0617: 4, L0438: 4, L0754: 4, L0731: 4,
	Ser-9 to Gly-17, Ser-20 to Pro-26, Arg-32 to His-41.	
	3880	3881
	3 - 290	160 - 468
	1705	1706
	HOVEG73 HOVEG73R	HOVEJISR
	HOVEG73	HOVEJ15

																							,						
			,	:		•																							
H0295: 3, L0776: 3,	H0619: 2, H0441: 2,	H0253: 2, H0545: 2,	H0188: 2, H0687: 2,	H0428: 2, H0424: 2,	H0213: 2, H0031: 2,	L0769: 2, L0803: 2,	L0792: 2, H0539: 2,	L0748: 2, L0745: 2,	L0747: 2, L0757: 2,	H0717: 1, H0549: 1,	S0222: 1, H0333: 1,	H0318: 1, S0049: 1,	L0738: 1, H0046: 1,	H0024: 1, H0090: 1,	H0649: 1, S0142: 1,	L0763: 1, L0642: 1,	L0764: 1, L0771: 1,	L0649: 1, L0651: 1,	L0632: 1, L0805: 1,	L0790: 1, H0144: 1,	H0723: 1, H0682: 1,	H0696: 1, H0555: 1,	S0028: 1, L0742: 1,	L0744: 1 and L0752: 1.					,
				•					-														-		Ser-13 to Val-21,	Thr-45 to Ser-50.			
							•																		3882		3883	3884	3885
				ì																					60 - 209		146 - 265	1 - 168	1 - 102
													•			·								٠	17071		1708	1709	1710
																									HOVELSIR		HOVEN79R	HOVEN86 HOVEN86R	HOVEP45R
				·													,	•						•	HOVEL51		HOVEN79	HOVEN86	HOVEP45

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									-			,																	
	L0803: 7, L0748: 4,	L0439: 4, L0804: 3,	L0750: 3, L0756: 3,	H0024: 2, L0438: 2,	L0747: 2, L0779: 2,	H0624: 1, H0171: 1,	H0661: 1, S0354: 1,	H0208: 1, S0300: 1,	H0441: 1, H0331: 1,	H0013: 1, S0214: 1,	H0428: 1, H0040: 1,	L0770: 1, L0776: 1,	L0809: 1, L0665: 1,	H0547: 1, H0658: 1,	S0432: 1, L0749: 1,	L0777: 1, L0780: 1,	L0755: 1 and L0759: 1.												
	Lys-5 to Ser-18.	•	•															Val-2 to Ser-7.				Ser-5 to Gly-10,	Glu-18 to Glu-32,	Ala-39 to Lys-46,	Ser-89 to Arg-96,	Pro-141 to Ala-151,	Ser-162 to Gln-169.	Ala-18 to Ser-24,	01) -22 to 1 mi -20.
3886	3887		•															3888	3889	3890	3891	3892						3893	
2 - 244	175 - 405		•															3 - 152	20 - 130	2 - 355	1 - 396	1 - 576						1 - 186	
1711	1712				•													1713	1714	1715	1716	1717						1718	
HOVEW80 HOVEW80R	HOVEY58R																	HOVFD79R	HOVJF86 HOVJF86RA	HOVJH27RA	HOVJI53R	HOVJJ09R						HOVJR56R	
HOVEW80	HOVEY58																	HOVFD79	HOVJF86		HOVJI53	HOVJJ09						HOVJR56	

						•							•											
													-				·							
					L0157: 2, H0620: 2,	L0666: 2, S0001: 1,	L0717: 1, H0549: 1,	S0222: 1, H0581: 1,	H0194: 1, H0015: 1,	H0399: 1, H0271: 1,	H0688: 1, H0428: 1,	H0124: 1, L0637: 1,	H0672: 1, L0439: 1,	L0750: 1 and H0423: 1.	,									
Tyr-44 to Asp-49, Pro-132 to Leu-139, Cvs-168 to His-174	Ala-8 to Gln-14, Arg-40 to Glu-45.	Pro-47 to Lys-53,	Leu-93 to Lys-102,	Tyr-105 to Gln-110, Are-115 to Lys-124	Ala-1 to His-13,	Leu-73 to Leu-79.									Ala-20 to Val-38,	Cys-43 to Thr-60,	Arg-91 to Lys-97.	Gln-15 to Leu-20,	Pro-37 to Thr-44.	Cys-23 to His-29,	Ser-74 to Glu-91.	Gln-8 to Tyr-14,	Pro-20 to Thr-26.	
3894	3895	3896			3897										3888			3899		3900		3901		3902
49 - 684	74 - 301	199 - 570			1-366										2 - 487			1 - 168		2 - 406		323 - 511		2 - 586
1719	1720	1721			1722										1723			1724		1725		1726		1727
HOVJU75R	HOVJW17R	HOVJY68R			HOVKB02R				•						HOVKE66R			HOVKF20R		HOVKG18 HOVKG18R	-	<b>HPAMB11R</b>		HPAMB60R
HOVJU75	HOVJW17	HOVJY68	-		HOVKB02										HOVKE66			HOVKF20	,	HOVKG18		HPAMB11		HPAMB60

L0439: 11, L0747: 8,	H0624: 6, L0759: 6,	L0779: 5, L0758: 5,	H0013: 4, L0803: 4,	L0754: 4, H0171: 3,	L0666: 3, L0756: 3,	L0752: 3, L0755: 3,	L0591: 3, L0608: 3,	H0170: 2, H0650: 2,	H0341: 2, H0663: 2,	S0360: 2, S0003: 2,	L0769: 2, L0796: 2,	L0766: 2, L0649: 2,	L0806: 2, H0696: 2,	S0028: 2, L0740: 2,	L0750: 2, L0777: 2,	S0436: 2, L0361: 2,	S0298: 1, S0418: 1,	S0444: 1, S0408: 1,	H0733: 1, H0734: 1,	S0300: 1, S0220: 1,	H0497: 1, H0333: 1,	H0270: 1, H0575: 1,	H0036: 1, H0590: 1,	H0596: 1, H0050: 1,	L0471: 1, H0015: 1,	S0388: 1, S6028: 1,	H0266: 1, H0328: 1,	H0622: 1, H0708: 1,	H0591: 1, H0040: 1,
3903   Leu-12 to Ser-21.			•	:									•	-			•							•					
3903												٠																	
2-196															•							٠						-	,
1728																													
HPAMB62   HPAMB62R							·.				•																		
HPAMB62																													,

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H0087: 1, H0412: 1,	H0059: 1, S0112: 1,	H0625: 1, S0440: 1,	S0150: 1, S0422: 1,	L0598: 1, H0529: 1,	L0770: 1, L0761: 1,	L0646: 1, L0764: 1,	L0662: 1, L0768: 1,	L0794: 1, L0650: 1,	L0774: 1, L0775: 1,	L0375: 1, L0659: 1,	L0809: 1, L0530: 1,	L0664: 1, L0665: 1,	S0053: 1, L0438: 1,	H0547: 1, H0519: 1,	H0682: 1, H0659: 1,	H0658: 1, H0660: 1,	H0539: 1, S0152: 1,	S0044: 1, L0749: 1,	L0757: 1, H0445: 1,	S0394: 1, L0596: 1,	L0594: 1, S0026: 1,	S0276: 1, H0543: 1,	H0423: 1, S0412: 1 and	H0293: 1.					S0360: 15, S0358: 14,
		٠										•						-											Arg-1 to Gly-6,
																									3904	3905	3906	3907	3908
																									2 - 439	134 - 334	8-631	1 - 669	18 - 464
																									1729	1730	1731	1732	1733
		-	_ <del>-</del>				•																		HPAMB93R	HPAMC04R	HPAMC19 HPAMC19R	HPAMC27 HPAMC27R	HPAMC90   HPAMC90R
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L0794: 12, L0747: 12,	H0696: 11, H0341: 10,	H0670: 10, H0657: 9,	S0422: 9, H0659: 8,	S0114: 7, H0656: 7,	S0408: 7, S0007: 7,	543:	S0444: 6, L0471: 6,	S0126: 6, H0658: 6,	S0378: 6, S0406: 6,	S0027: 6, H0038: 5,	H0040: 5, L0770: 5,	.0517: 5, H0648: 5,	S0404: 5, L0752: 5,	H0423: 5, H0624: 4,	H0171: 4, H0716: 4,	S0116: 4, S0410: 4,	H0545: 4, H0373: 4,	H0674: 4, L0520: 4,	.0763: 4, L0662: 4,	.0775: 4, L0493: 4,	.0518: 4, L0809: 4,	.0519: 4, S3012: 4,	H0445: 4, L0361: 4,	349: 3	S0420: 3, H0580: 3,	S0132:-3, T0109: 3,	H0013: 3, S0346: 3	H0597: 3, H0615: 3,	087: (
12, 17	11, H	10, H	, HO	, HQ	, SOC	H0486: 7, H0543:	, L02	5, HO	5, SO4	5, HO	5, LO	5, HO	5,13	5, HO	4, HO	F, S04	4, HO	4, LO.	5, 10	<del>,</del> Ľ	¥, L0	f, S30	4, LO	H0685: 3, T0049:	, H0	, T01	3, SO	3, HO	H0616: 3, H0087:
794: 1	:969	:0/9	122: 5	114:7	108:7	486: ′	<u>¥</u> .6	126: 6	378: €	27:6	940: 1	517: 5	704: 5	423: :	171:	16:4	545: 4	574: 4	763: 4	775: 4	518: 4	519: 4	445: 4	585:	120:3	32:-3	013:	597:	516:
10	Ĕ	Ĕ	S02	<u>S</u>	80 <sub>7</sub>	Ě	80	SO	S03	<u>80</u>	<u>H</u>	9	S04	Ή	H	<u>S</u> 0	<u>H</u>	ŎĦ.	10	0	<u>.</u>	<u> </u>	ΉÓΗ	Ř	S04	S01	<u>H</u>	HO.	HO
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H0494: 3, S0440: 3,	.0769; 3, L0761; 3,	L0764: 3, L0521: 3,	03: 3, L0776: 3,	.0537: 3, H0144: 3,	H0682: 3, S0380: 3,	S0028: 3, L0748: 3,	.0731: 3, H0422: 3,	H0394: 2, T0002: 2,	H0159: 2, S0342: 2,	H0717: 2, S0134: 2,	H0484: 2, H0661: 2,	H0638: 2, S0442: 2,	H0637: 2, H0619: 2,	H0351: 2, H0362: 2,	S0280: 2, T0048: 2,	H0009: 2, H0012: 2,	H0014: 2, H0688: 2,	H0617: 2, H0413: 2,	.0065: 2, S0438: 2,	S0210: 2, L0767: 2,	22: 2, L0806: 2,	.0653: 2, L0526: 2,	.0546: 2, L0530: 2,	.0532: 2, L0666: 2,	.0665: 2, H0547: 2,	H0689: 2, H0672: 2,	H0651: 2, S0328: 2,	S0330: 2, H0710: 2,	S0152: 2, H0521: 2,
H04	101	L07	)80 <u>7</u>	L05	90H	2002	[101]	H03	H01	H07	H04	90H	90H	H03	S028	H00	(H00	90H	<u>1</u> 007	S02	105;	90T	105	105	)     	90H	90H	203	S01
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32: 2	50: 2	03: 2		/13:	24: 1	94:	10:1	05:		46:	30:1	22:	70:	:55	33:	86: ]		63:	121:	60	31:	23:	63:	.:66	:99	12: 1	28:	06: 1	90
S00.	<b>L</b> 07	106	H01	HO	S60.	H02	<b>S</b> 01	H03	H07	S00	S03	<b>S02</b>	H03	H05	H03	1.05	H0098:	105	H04	H03	H02	H01	2	H03	H02	S03	H04	T00	H06
): 2,	? 2	3:2,	5. 2,	5: 1,	2: 1,	5: 1,	3: 1,	2: 1,	3: 1,	8: 1,	5: 1,	2: 1,	5: 1,	4: 1,	7: 1,	3: 1,	<b>:</b> 1,	8: 1,	1: 1,	1: 1,	5: 1,	0: 1,	0:1,	. 1,	4: <u>1</u> ,	F: 1,	F. 1,	3: 1,	3: 1,
S0390: 2, S0032: 2,	J0742: 2, L0750: 2,	.0588: 2, L0603: 2,	S0026: 2, H0170: 1	H0395: 1, H0713: 1	S0402: 1, S6024: 1	H0295: 1, H0294: 1	S0218: 1, S0110:	H0402: 1, H0305: 1	S0418: 1, H0722: ]	H0728: 1, S0046:	S0476: 1, S0300:	H0462: 1, S0222:	H0385: 1, H0370:	H0404: 1, H0592:	H0497: 1, H0333:	.0623: 1, L0586:	70060: 1,	H0318: 1, L0563:	H0581: 1, H0421:	H0251: 1, H0309:	H0596: 1, H0231:	H0150: 1, H0123:	H0620: 1, L0163:	S0051: 1, H0399:	H0354: 1, H0266: 1,	S0334: 1, S0312: 1,	S0214: 1, H0428:	.0483: 1, T0006: 1,	H0553: 1, H0606:
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H0212: 1, H0124: 1,	10090: 1, H0059: 1,	F0004: 1, T0041: 1,	H0560: 1, H0625: 1,	10561: 1, H0366: 1,	10509: 1, H0633: 1,	S0472: 1, H0647: 1,	H0646: 1, H0649: 1,	S0142: 1, H0529: 1,	.0451: 1, L0625: 1,	.0640: 1, L0501: 1,	``	ئے:	 <u>`</u>	`	.0783: 1, L0529: 1,		S0374: 1, H0691: 1,	10684: 1, H0435: 1,	H0660: 1, H0666: 1,	H0539: 1, H0524: 1,	H0704: 1, S0044: 1,	S0146: 1, H0134: 1,	H0436: 1, S0392: 1,	S3014: 1, L0753: 1,	L0755: 1, L0759: 1,	S0031: 1, S0260: 1,	H0444: 1, H0595: 1,	.0599: 1, L0608: 1,
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H0653: 1, S0242: 1, S0194: 1, S0196: 1, H0542: 1, H0506: 1 and H0352: 1.		L0731: 9, L0653: 8, L0757: 6, L0809: 5, L0747: 5, S0418: 4, S0360: 4, H0188: 4, S0404: 4, L0779: 4, S0040: 3, H0370: 3, H0040: 3, L0774: 3, S0434: 3, S0442: 2, L0773: 2, H0252: 2, S0440: 2, L0374: 2, L0773: 2, H0435: 2, L0746: 2, L0758: 2, L0746: 2, L0758: 2, L0746: 2, L0758: 2, L0746: 2, L0758: 2, L0746: 1, L0717: 1, H0686: 1, S0358: 1, S0476: 1, L0717: 1, H0549: 1, H0455: 1, H0586: 1, H0599: 1,	H0118: 1, H0235: 1,
	Glu-10 to Phe-17, Phe-25 to Leu-32, Thr-38 to Tyr-44,	Gly-60 to Phe-66.	
	3909	3910	
	1 - 504	2 - 277	
	1734	1735	
	HPAMD56 HPAMD56R	HPAME35R	
	HPAMD56	HPAME35	

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H0597: 1, H0545: 1,	T0003: 1, H0510: 1,	S0314: 1, H0039: 1,	L0194: 1, T0086: 1,	H0606: 1, H0032: 1,	H0674: 1, H0708: 1,	H0598: 1, H0634: 1,	H0379: 1, H0413: 1,	H0100: 1, S0464: 1,	H0509: 1, S0344: 1,	L0763: 1, L4497: 1,	L0639: 1, L0764: 1,	L0771: 1, L0364: 1,	L0775: 1, L0806: 1,	L0655: 1, L0807: 1,	L0657: 1, L0788: 1,	L0664: 1, L0665: 1,	S0374: 1, H0693: 1,	S0126: 1, H0689: 1,	H0690: 1, H0682: 1,	H0670: 1, H0660: 1,	H0672: 1, S0330: 1,	S0152: 1, S0390: 1,	L0744: 1, L0750: 1,	L0780: 1, L0753: 1,	H0665: 1, H0667: 1 and	S0196: 1.	H0663: 1, L0438: 1 and H0682: 1.	
																			-								Lys-1 to Leu-12.	Glu-1 to Gly-8.
											,																3911	3912
					,															•							184 - 492	19 - 513
																											1736	1737
																											HPAME58R	HPAMF16R
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L0752: 12, L0748: 8,	L0766: 5, L0599: 5,	H0617: 4, L0764: 4,	H0081: 3, L0774: 3,	L0806: 3, L0776: 3,	L0749: 3, L0750: 3,	S0444: 2, S0408: 2,	H0392: 2, H0150: 2,	H0494: 2, H0521: 2,	L0756: 2, L0758: 2,	H0506: 2, H0352: 2,	H0265: 1, H0483: 1,	S0358: 1, L0021: 1,	H0108: 1, H0024: 1,	H0083: 1, S0366: 1,	H0090: 1, H0038: 1,	H0040: 1, T0041: 1,	L,	L3905: 1, L0772: 1,	L0644: 1, L0645: 1,	L0771: 1, L0775: 1,	L0651: 1, L0378: 1,	L0659: 1, L0666: 1,	L0665: 1, L0438: 1,	H0519: 1, H0682: 1,	H0670: 1, S0188: 1,	L0740: 1, L0747: 1,	L0777: 1, L0759: 1,	H0445: 1, L0596: 1,	L0604: 1 and H0542: 1.
Ser-35 to Gly-41,	Ser-71 to Met-80.	·																											
3913			,																										
24 - 449	٠.									٠							-					•						•	,
1738															•													•	
HPAMF38   HPAMF38R														-															
HPAMF38				-					•						•														

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•									L0777: 5, L0766: 3,	L0803: 3, L0439: 3,	S0360: 2, L0598: 2,	L0666: 2, L0748: 2,	T0049: 1, S0134: 1,	S0116: 1, L0717: 1,	H0586: 1, H0486: 1,	H0575: 1, H0510: 1,	H0553: 1, H0560: 1,	S0422: 1, L0763: 1,	L0769: 1, L0521: 1,	L0767: 1, L0768: 1,	L0775: 1, L0663: 1,	S0374: 1, L0438: 1,	H0520: 1, H0682: 1,	S0328: 1, L0740: 1,	L0757: 1, S0192: 1 and	H0543: 1.	-	S0358: 8, L0777: 6,
		Lys-13 to Tyr-30,	Arg-32 to Lys-37, Ser-72 to Thr-79,	Thr-110 to Trp-115,	Leu-124 to Ala-130,	Leu-132 to Glu-138,	Asn-141 to Lys-162.																				Pro-18 to Lys-24.	Thr-27 to Lys-37.
3914	3915	3916						3917	3918														-				3919	3920
385 - 666	3 - 410	2 - 670		-				2 - 472	100 - 246																		2 - 190	327 - 509
1739	1740	1741						1742	1743																		1744	1745
HPAMG44 HPAMG44R	HPAMG54R	HPAMIIIR		,		•		HPAMJ71R	HPAMQ47 HPAMQ47R																		HPAMQ76 HPAMQ76R	HPAMT47   HPAMT47R
HPAMG44	HPAMG54	HPAMI11						HPAMJ71	HPAMQ47																		HPAMQ76	HPAMT47

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L0744: 4, H0656: 3, L0766: 3, H0659: 3,	H0436: 3, L0754: 3,	L0747: 3, L0731: 3,	S0026: 3, H0254: 2,	S0007: 2, H0587: 2,	L0586: 2, H0545: 2,	H0150: 2, L0794: 2,	H0144: 2, L0750: 2,	L0608: 2, S0412: 2,	H0170: 1, H0638: 1,	S0420: 1, S0442: 1,	S0444: 1, H0329: 1,	S0045: 1, H0645: 1,	H0586: 1, H0333: 1,	H0574: 1, H0013: 1,	H0250: 1, L0105: 1,	H0581: 1, H0196: 1,	H0263: 1, H0546: 1,	H0457: 1, L0157: 1,	L0471: 1, S0051: 1,	S0336: 1, S0214: 1,	H0428: 1, H0032: 1,	H0166: 1, H0673: 1,	H0561: 1, S0440: 1,	L0763: 1, L0764: 1,	L0803: 1, L0804: 1,	L0776: 1, T0068: 1,	H0547: 1, H0519: 1,	H0593: 1, H0690: 1,
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H0682: 1, H0435: 1, H0670: 1, H0666: 1, H0672: 1, S0328: 1, H0696: 1, L0751: 1, L0749: 1, L0756: 1, L0780: 1, L0757: 1, L0759: 1, H0543: 1, H0423: 1 and H0422: 1.			L0742: 11, L0747: 10,	L0769: 9, L0766: 9,	L0754: 8, L0751: 7,	L0777: 7, L0752: 7,	L0806: 6, L0776: 6,	L0743: 6, L0717: 4,	L0665: 4, L0750: 4,	S0360: 3, H0580: 3,	H0318: 3, H0052: 3,	L0471: 3, H0040: 3,	T0042: 3, H0547: 3,	H0682: 3, L0745: 3,	L0779: 3, L0759: 3,	L0593: 3, L0601: 3,	H0624: 2, H0556: 2,	S0045: 2, H0559: 2,	H0013: 2, H0530: 2,	H0046: 2, H0620: 2,	S0051: 2, T0010: 2,
	Lys-59 to Tyr-70, Pro-109 to Lys-115.	Gln-34 to Asn-39.	Gly-1 to Arg-13,	Glu-37 to Lys-42,	Gly-45 to Gln-64.									٠			•				
	3921	3922	3923																		
,	2 - 520	207 - 422	1 - 357																	,	
	1746	1747	1748																		-
	HPAMU33R	HPAMV82   HPAMV82R	HPAMW44 HPAMW44R					•													
	HPAMU33	HPAMV82	HPAMW44																		

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H0083: 2, S0002: 2,	2, L0659: 2,	H0520: 2, S0292: 2,	.0744: 2, L.0740: 2,	.0758: 2, L0596: 2,	1, L0393: 1,	S0001: 1, H0663: 1,	1, H0638: 1,	S0420: 1, S0358: 1,	1, H0619: 1,	H0645: 1, H0550: 1,	S0222: 1, H0392: 1,	1, H0257: 1,	T0039: 1, T0040: 1,	S0280: 1, H0156: 1,	H0575: 1, H0618: 1,	H0253: 1, S0010: 1,	H0581: 1, H0194: 1,	H0204: 1, H0150: 1,	H0123: 1, H0292: 1,	.0194: 1, T0023: 1,	H0031: 1, H0553: 1,	H0617: 1, H0673: 1,	H0169: 1, H0674: 1,	H0090: 1, H0269: 1,	H0623: 1, H0494: 1,	.0475: 1, S0150: 1,	H0538: 1, L0763: 1,	.0638: 1, L0761: 1,	L0646: 1, L0645: 1,
H0083:	L0770:	H0520:	L0744:	L0758:	T0049:	S0001:	H0306:	S0420:	S0132:	H0645:	S0222:	H0438:	T0039:	S0280:	H0575:	H0253:	H0581:	H0204:	H0123:	L0194:	H0031:	H0617:	H0169:	H0000:	H0623:	L0475:	H0538:	L0638:	L0646:
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L0771: 1, L0803: 1, L0651: 1, L0657: 1, L0658: 1, L0657: 1, L0664: 1, L0663: 1, L0664: 1, H0144: 1, H0593: 1, S0126: 1, H0435: 1, S0126: 1, H0521: 1, H0522: 1, S0044: 1, S0406: 1, S0027: 1, L0741: 1, L0439: 1, L0755: 1, L0485: 1, L0668: 1, S0011: 1, H0668: 1,			L0493: 91, L0515: 29, L0509: 25, L0514: 21, L0803: 12, L0508: 8, L0604: 7, H0599: 6, L0809: 5, H0445: 5, L0800: 4, L0511: 4, L0362: 4, H0543: 4,
	Pro-1 to Cys-6, Ala-13 to Ala-19, His-22 to Lys-28, Ser-44 to Cys-53, Pro-56 to Gly-67.	Trp-19 to Ser-27, Pro-185 to Ser-195.	
	3924	3925	3926
	291 - 569	2 - 628	3 - 149
	1749	1750	1751
	HPAMY45R	HPAMZ14R	HPAMZ15R
·	HPAMY45	HPAMZ14	HPAMZ15

H0657: 3, L0598: 3,	L0498: 3, L0805: 3,	L0780: 3, L0755: 3,	L0731: 3, L0759: 3,	L0591: 3, S0026: 3,	H0170: 2, H0373: 2,	H0038: 2, H0623: 2,	H0494: 2, H0560: 2,	H0561: 2, L0503: 2,	L0651: 2, L0653: 2,	L0776: 2, L0792: 2,	H0520: 2, H0555: 2,	S0206: 2, L0748: 2,	L0749: 2, L0756: 2,	L0779: 2, L0590: 2,	L0608: 2, H0668: 2,	H0422: 2, S0040: 1,	S0114: 1, S0134: 1,	S0218: 1, H0656: 1,	S0212: 1, S0360: 1,	H0489: 1, H0580: 1,	S0045: 1, S0476: 1,	H0431: 1, H0643: 1,	L0623: 1, H0486: 1,	H0069: 1, H0002: 1,	H0097: 1, H0274: 1,	S0474: 1, H0421: 1,	L0040: 1, H0024: 1,	S0003: 1, H0622: 1,	H0553: 1, H0032: 1,
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H0388: 1, H0400: 1,	S0036: 1, H0090: 1,		T0042: 1, H0625: 1,	S0210: 1, H0529: 1,	L0625: 1, L0505: 1,	L0506: 1, L0500: 1,	L0761: 1, L0646: 1,	L0662: 1, L0794: 1,	L0375: 1, L0784: 1,	L0655: 1, L0510: 1,	L0634: 1, L0517: 1,	L0519: 1, L0793: 1,	L0666: 1, L0664: 1,		H0519: 1, H0682: 1,	H0658: 1, H0648: 1,	H0672: 1, H0539: 1,	H0521: 1, H0696: 1,	S0146: 1, S0390: 1,	L0747: 1, L0753: 1,	S0260: 1, H0444: 1,	S0434: 1, L0584: 1,	S0242: 1, S0194: 1,	S0276: 1, H0542: 1 and	S0424: 1.			
											-													•		Ser-1 to Lys-25,	Glu-71 to Ser-77,	Glu-93 to Thr-99,
																										3927		
																										3 - 677		
				_																			-	•	_	1752	-	
																										HPAMZ81R		
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				H0497: 5, S0002: 5,	H0529: 5, H0556: 4,			H0543: 3, H0265: 2,	H0657: 2, H0656: 2,	H0458: 2, S0358: 2,	H0486: 2, H0050: 2,	H0124: 2, H0591: 2,	H0494: 2, L0662: 2,	H0522: 2, L0740: 2,	L0751: 2, L0747: 2,	L0588: 2, L0605: 2,	H0667: 2, H0686: 1,	H0650: 1, H0664: 1,	H0125: 1, S0418: 1,	H0580: 1, S6014: 1,	H0257: 1, H0559: 1,	H0635: 1, H0427: 1,	H0575: 1, H0052: 1,	N0006: 1, L0471: 1,	H0373: 1, H0083: 1,
Arg-123 to His-134, Pro-141 to His-146, His-198 to Ala-207.	Thr-23 to Gln-35, His-37 to Val-51,	Arg-70 to Arg-81, Gln-108 to Asp-114,	Met-130 to Ser-140.	Ala-1 to Thr-6,	Lys-19 to Leu-24,	Ile-77 to Ala-93,	Val-105 to Leu-110,	Thr-139 to Thr-153,	Thr-165 to Lys-187,	Ala-198 to Leu-203, H0458: 2, S0358: 2,	Ser-211 to Lys-226.														
	3928			3929																		,			
	2 - 514			1 - 720							-		-										•		
	1753			1754																					
	HPANA05R			HPANA07R																					
	HPANA05			HPANA07																					

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H0266: 1, S0250: 1, S0022: 1, H0428: 1, H0031: 1, H0383: 1, H0212: 1, S0366: 1, S0036: 1, H0040: 1, H0634: 1, H0561: 1, L0761: 1, L0770: 1, L0761: 1, L0772: 1, L0657: 1, L0776: 1, L0657: 1, L0665: 1, S0148: 1, S0126: 1, H0682: 1, H0694: 1, S0037: 1, L0744: 1, L0750: 1, L0744: 1, L0750: 1, L0748: 1, L0731: 1, S0436: 1, L0596: 1, L0485: 1, H0423: 1, S0424: 1 and S0446: 1.								
	Gln-22 to Thr-31, Leu-91 to Leu-104.	Gln-13 to Gly-28.		Leu-1 to Ser-8.		Lys-64 to Tyr-75,	Pro-114 to Lys-120, I en-160 to I ys-169	1
	3930	3931	3932	3933	3934	3935		
	2 - 376	494 - 730	2 - 247	255 - 446	2 - 412	1 - 666		
	1755	1756	1757	1758	1759	1760		
	HPANA28R	HPANA87R	HPANB32R	HPANC01R		HPANE52R		
	HPANA28	HPANA87	HPANB32	HPANC01	HPANE49	HPANE52		

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		L0752: 10, L0593: 9,	L0775: 8, L0588: 8,	L0666: 7, L0665: 7,	L0592: 7, L0595: 7,	L0363: 6, L0774: 6,	L0747: 6, L0362: 6,	H0422: 6, L0455: 5,	L0659: 5, H0539: 5,	H0170: 4, S0360: 4,	L0657: 4, H0547: 4,	L0749: 4, L0779: 4,	L0757: 4, H0657: 3,	H0412: 3, L0520: 3,	L0761: 3, L0646: 3,	L0375: 3, L0651: 3,	L0783: 3, H0144: 3,	H0520: 3, H0659: 3,	H0670: 3, H0648: 3,	L0740: 3, L0750: 3,	L0756: 3, L0731: 3,	L0759: 3, L0591: 3,	L0608: 3, H0662: 2,	S0376: 2, H0637: 2,	H0619: 2, L0717: 2,	S0280: 2, H0318: 2,	T0010: 2, H0040: 2,	H0413: 2, L0351: 2,	H0646: 2, L0763: 2,
Tyr-172 to Gln-177,	Pro-182 to Val-189.																												
		3936			:																								
	•	119 - 652			•																•								
		1761																											
		HPANE87R																								-			
		HPANE87									,																		

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L0521: 2. L0784: 2.	L0655: 2, L0382: 2,	L0809: 2, L0664: 2,	H0682: 2, H0658: 2,	H0672: 2, L0439: 2,	L0755: 2, L0589: 2,	L0604: 2, S0424: 2,	H0624: 1, H0686: 1,	H0685: 1, S0040: 1,	H0716: 1, H0341: 1,	H0580: 1, S0468: 1,	S6026: 1, H0351: 1,	H0392: 1, L0623: 1,	T0060: 1, H0069: 1,	H0427: 1, T0048: 1,	T0071: 1, S0049: 1,	H0052: 1, L0471: 1,	S0388: 1, S0051: 1,	S0003: 1, T0006: 1,	L0055: 1, H0169: 1,	S0036: 1, T0067: 1,	H0059: 1, H0494: 1,	H0560: 1, S0372: 1,	S0002: 1, L0371: 1,	L0637: 1, L0627: 1,	L0772: 1, L0764: 1,	L0662: 1, L0767: 1,	L0768: 1, L0649: 1,	L4500: 1, L0650: 1,	L0378: 1, L0806: 1,
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L0633: 1, L0628: 1,	L0517: 1, L0518: 1,	L0789: 1, L0663: 1,	L0352: 1, H0684: 1,	H0435: 1, H0666: 1,	S0330: 1, S0378: 1,	S0380: 1, S0152: 1,	H0134: 1, S0406: 1,	H0436: 1, L0612: 1,	L0742: 1, L0748: 1,	L0751: 1, S0031: 1,	L0596: 1, L0485: 1,	L0599: 1, L0601: 1,	S0026: 1, H0542: 1,	H0543: 1 and H0423: 1.			H0328: 2, H0674: 2,	L0774: 2, L0805: 2,	H0682: 2, L0731: 2,	H0306: 1, L0770: 1,	L0764: 1, L0809: 1,	H0520: 1, H0660: 1,	H0521: 1, L0744: 1,	L0751: 1, L0750: 1,	L0752: 1, S0026: 1,	H0352: 1 and L0360: 1.			H0659: 2
					-			-							Ser-5 to Ser-14,	Gln-21 to Gln-28.					•								Pro-1 to Val-6,
				,											3937	٠	3938										3939	3940	3941
	***			,								•	-		3-119		170 - 310	-	٠			-					2 - 139	47 - 118	3 - 308
							-								1762		1763										1764	1765	1766
															HPANJ67R		HPANK61R										HPCOB29R	HPCOB69R	HPCOJ59R
															HPANJ67		HPANK61										HPCOB29	HPCOB69	HPCOJ59

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		H0591: 62, S0242: 15,	L0754: 11, S0003: 9,	S0196: 8, L0766: 7,	H0144: 6, L0740: 6,	L0664: 5, S0420: 4,	H0393: 4, L0803: 4,	H0428: 3, H0509: 3,	H0641: 3, L0777: 3,	L0595: 3, L0362: 3,	S0360: 2, H0013: 2,	L0471: 2, L0163: 2,	H0355: 2, H0553: 2,	S0036: 2, L0662: 2,	L0804: 2, S0374: 2,	L0438: 2, S0126: 2,	L0748: 2, L0755: 2,	L0485: 2, S0412: 2,	H0341: 1, S0376: 1,	H0580: 1, S0045: 1,	H0331: 1, T0039: 1,	T0060: 1, H0427: 1,	L0021: 1, H0590: 1,	H0318: 1, H0194: 1,	H0563: 1, H0572: 1,	H0051: 1, H0083: 1,	S6028: 1, S0312: 1,
Asp-51 to Phe-56, Asp-83 to Gly-88, Ser-94 to Glu-102.		He-12 to Cys-18.															٠										
	3942	3943															:										
	197 - 346	426 - 557																			,						
	1767	1768																					÷				
	HPCOK72R	HPCOK73 HPCOK73R		•																							
	HPCOK72	HPCOK73																									

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S0214: 1, H0031: 1, H0628: 1, H0598: 1,	H0038: 1, H0634: 1,	H0616: 1, H0551: 1,	H0412: 1, L0370: 1,	H0494: 1, H0625: 1,	S0440: 1, S0344: 1,	H0529: 1, L0770: 1,	L0646: 1, L0645: 1,	L0648: 1, L0521: 1,	L0775: 1, L0525: 1,	L0805: 1, L0657: 1,	L0782: 1, L0663: 1,	 H0519: 1, H0711: 1,	H0659: 1, H0660: 1,	H0518: 1, S0152: 1,	H0521: 1, L0745: 1,	L0759: 1, S0434: 1,	L0590: 1, L0592: 1,	L0594: 1, H0667: 1,	H0423: 1, H0422: 1,	S0424: 1 and H0506: 1.							
																						Lys-42 to Val-49.	Ala-3 to Gly-9.	Tyr-12 to Ile-17,	Pro-28 to Asn-33,	Arg-45 to Asp-53.	
									-												3944	3945	3946	3947			3948
																					1 - 108	33 - 179	3 - 335	343 - 2			2 - 427
																					1769	1770	1771	1772			1773
	_																				HPCOK93R	HPCOL81R	HPCO090R	HPC0095R			HPCOP23R
																					HPCOK93	HPCOL81	HPC0090	HPC0095			HPCOP23

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	L0803: 8, L0777: 8,	L0794: 7, L0766: 7,	H0144: 5, L0438: 5,	H0547: 5, L0439: 5,	H0013: 4, L0779: 4,	H0441: 3, S0440: 3,	L0762: 3, L0771: 3,	L0662: 3, L0666: 3,	L0665: 3, L0748: 3,	L0752: 3, H0656: 2,	H0341: 2, S0418: 2,	S0356: 2, H0575: 2,	H0328: 2, H0615: 2,	H0040: 2, H0477: 2,	T0041: 2, L0598: 2,	L0763: 2, L0659: 2,	L0663: 2, L0664: 2,	H0659: 2, L0602: 2,	S0406: 2, L0755: 2,	L0759: 2, L0592: 2,	H0624: 1, H0170: 1,	H0171: 1, S0134: 1,	H0583: 1, H0650: 1,	H0657: 1, L0415: 1,	S0116: 1, H0661: 1,	H0664: 1, S0420: 1,	L0005: 1, S0444: 1,	S0360: 1, S0408: 1,	S0046: 1, S0476: 1,
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3949	3950	,									_										•							`	
417 - 548	2 - 259					••			-			•									•								
1774	1775																												
HPCOQ33R	HPCOQ85R											-															,		:
HPCOQ33	HPC0Q85						.,																		,				

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S0300: 1, L0717: 1,	H0411: 1, H0486: 1,	T0039: 1, H0318: 1,	H0581: 1, H0123: 1,	H0014: 1, H0354: 1,	H0179: 1, S0003: 1,	H0628: 1, H0032: 1,	S0036: 1, L0060: 1,	H0264: 1, H0412: 1,	L0564: 1, H0625: 1,	H0131: 1, H0646: 1,	S0002: 1, L0770: 1,	L0637: 1, L0761: 1,	L0800: 1, L0764: 1,	L0649: 1, L0804: 1,	L0650: 1, L0519: 1,	L0352: 1, H0519: 1,	S0126: 1, H0658: 1,	H0648: 1, H0672: 1,	S0328: 1, S0330: 1,	H0518: 1, H0696: 1,	H0704: 1, S0027: 1,	L0743: 1, L0754: 1,	L0747: 1, L0758: 1,	S0434: 1, L0591: 1,	S0011: 1, H0543: 1,	H0422: 1, H0506: 1 and	H0721: 1.		
																													Ala-44 to Gly-50.
															, -									-				3951	3952
					-															•								483 - 641	133 - 396
					-																		•					1776	1777
												-		- <del></del> -	,													HPCOQ92R	HPCOR41R
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	S0414: 16, S0360: 6,	S0358: 5, L0766: 5,	H0574: 4, H0521: 4,	L0754: 4, L0756: 4,	S0422: 3, L0770: 3,	H0547: 3, H0672: 3,	L0596: 3, H0251: 2,	H0615: 2, H0090: 2,	L0646: 2, L0662: 2,	L0776: 2, L0659: 2,	L0752: 2, L0758: 2,	\$0436: 2, L0595: 2,	H0624: 1, L0002: 1,	H0583: 1, H0650: 1,	S0116: 1, S0298: 1,	S0282: 1, S0418: 1,	H0722: 1, H0734: 1,	S0045: 1, S0300: 1,	L0717: 1, S0222: 1,	H0013: 1, L0021: 1,	H0706: 1, L0105: 1,	H0263: 1, L0041: 1,	H0057: 1, S0050: 1,	L0163: 1, H0051: 1,	S0388: 1, S0051: 1,	H0271: 1, S0003: 1,	H0644: 1, H0032: 1,	H0673: 1, H0379: 1,	H0272: 1, H0059: 1,
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3953	3954																												
43 - 432	137 - 355		•								-																	-	
1778	1779											-														•			
HPCOR52R	HPCOU70R											•																	
HPCOR52	HPCOU70									•																			

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H0130: 1, H0647: 1, S0210: 1, S0426: 1, H0529: 1, L0637: 1, L0372: 1, L0649: 1, L0806: 1, L0657: 1, L0518: 1, L0788: 1, L0666: 1, L0663: 1, L0665: 1, H0144: 1, L0665: 1, H0144: 1, H0689: 1, H0519: 1, H0689: 1, S0380: 1, H0696: 1, S0406: 1, H0727: 1, L0439: 1, L0731: 1, H0595: 1, S0434: 1, L0608: 1, H0667: 1, S0196: 1,	H0506: 1.			L0439: 3, L0438: 1, H0659: 1, H0648: 1 and S0330: 1.		H0551: 11, L0766: 10, L0794: 8, S0026: 7,
	Lys-4 to Lys-16.		Asn-9 to Trp-14, Pro-20 to Arg-46.			
	3955	3956	3957	3958	3959	3960
	151 - 657	3 - 356	158 - 418	294 - 473	3-314	308 - 427
	1780	1781	1782	1783	1784	1785
	HPCOV35R	HPCOV41R	HPCOX43R	HPCPB38R	HPCPD26R	HPCPE33R
	HPCOV35	HPCOV41	HPCOX43	HPCPB38	HPCPD26	HPCPE33

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H0556: 6, L0770: 6,	H0659: 6, H0521: 6,	.0740: 5, H0661: 4,	H0638: 4, H0497: 4,	H0560: 4, H0170: 3,	H0341: 3, S0360: 3,	H0318: 3, H0561: 3,	.0731: 3, L0757: 3,	H0265: 2, S0418: 2,	S0420: 2, S0356: 2,	S0132: 2, S0278: 2,	F0115: 2, T0110: 2,	10083: 2, S0214: 2,	H0622: 2, H0617: 2,	S0364: 2, H0090: 2,	[10042: 2, H0366: 2,	H0646: 2, S0002: 2,	H0529: 2, L0369: 2,	.0769: 2, L.0646: 2,	.0776: 2, L0655: 2,	.0809: 2, L0789: 2,	.0666: 2, L.0664: 2,	.0777: 2, L0758: 2,	,0593; 2, H0668; 2,	H0543: 2, H0423: 2,	T0002: 1, S0342: 1,	H0716: 1, H0657: 1,	S0212: 1, H0402: 1,	,0005: 1, S0376: 1,	Н0580: 1, Н0339: 1,
H.	H		H	<u> </u>	<u>H</u>	<u>#</u>	<u>ਜ</u>	<u>E</u>	S	<u>S</u>	<u> </u>	<u> </u>	<u>II</u>	<u> </u>	<u> </u>	<u>#</u>	<u>E</u>	<u>, , , , , , , , , , , , , , , , , , , </u>	Ţ	<u> </u>	<u> </u>	<u></u>		<u> </u>	H	<u>王</u>	<u>Ø</u>	<u>, , , , , , , , , , , , , , , , , , , </u>	4
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L0717: 1, H0370: 1,	S0005: 1, H0257: 1,	H0485: 1, T0109: 1,	635: 1, H0309: 1,	H0046: 1, L0471: 1,	014: 1, H0266: 1,	S0003: 1, S0022: 1,	H0615: 1, H0031: 1,	S0366: 1, H0038: 1,	616: 1, H0413: 1,	F0041: 1, H0625: 1,	065: 1, S0440: 1,	S0150: 1, H0641: 1,	S0344: 1, S0422: 1,	H0026: 1, H0517: 1,	.0763: 1, L0761: 1,	.0630: 1, L0800: 1,	,0641: 1, L0642: 1,	.0771: 1, L0768: 1,	,0803: 1, L0650: 1,	775: 1, L0805: 1,	553: 1, L0657: 1,	L0663: 1, H0693: 1,	519: 1, S0126: 1,	H0658: 1, S0330: 1,	S0152: 1, H0522: 1,	H0696: 1, S0406: 1,	H0436: 1, H0626: 1,	S3014: 1, S0027: 1,	S0206: 1, L0596: 1,
07	<u>80</u>	OH HO	OH HO	<u>H0</u>	<u>0H</u>	<u>SOS</u>	OH.	.0S	OH HO	<u>T</u>	<u> </u>	SOS	SO:	OH OH	<u>r</u>	<u>വ</u>	<u>n</u>	<u> </u>	3	)T	<u> </u>	<u> </u>	<u>0H</u>	0H	08	OH HO	<u>H</u>	<u>S3</u> (	200
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S0194: 1, H0542: 1,	H0422: 1 and H0506: 1.	H0659: 2, L0752: 2, L0595: 2 and H0686: 1.					L0766: 10, L0754: 9,	S0358: 6, H0616: 6,	H0551: 5, L0439: 5,	H0657: 4, H0497: 4,	S0003: 4, H0038: 4,	S0422: 4, S0374: 4,	H0659: 4, S0045: 3,	H0644: 3, H0412: 3,	H0529: 3, L'0662: 3,	L0805: 3, L0657: 3,	L0663: 3, H0521: 3,	H0624: 2, H0171: 2,	S0040: 2, H0638: 2,	S0418: 2, L0005: 2,	S0376: 2, H0546: 2,	H0046: 2, H0553: 2,	H0169: 2, H0591: 2,	H0413: 2, H0623: 2,	L0646: 2, L0771: 2,	L0803: 2, L0526: 2,	L0666: 2, L0664: 2,
			Pro-10 to Val-15, Ser-25 to Asn-32.	,		Pro-29 to Gln-38.	Gln-47 to Lys-55.	,																			
		3961	3962	3963	3964	3965	3966				-																
		93 - 209	203 - 412	3 - 101	191 - 322	3-116	201 - 407																				
		1786	1787	1788	1789	1790	1791																				
		HPCPH50R	HPCPH51R	HPCPH52R	HPCPH68R	HPCPU27R	HPCPW09R																				
		HPCPH50	HPCPH51	HPCPH52	НРСРН68	HPCPU27	HPCPW09																				

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S0330: 2, S0380: 2,	.0748: 2, L0777: 2,	.0758: 2, S0242: 2,	H0170: 1, H0656: 1,	S0116: 1, H0341: 1,	S0212: 1, H0671: 1,	S0356: 1, S0442: 1,	360: 1, S0132: 1,	H0619: 1, L0717: 1,	1278: 1, H0574: 1,	10632: 1, H0486: 1,	70114: 1, H0013: 1,	105: 1, S0474: 1,	[0110: 1, H0545: 1,	.0471: 1, H0373: 1,	10290: 1, H0688: 1,		H0628: 1, L0055: 1,	H0673: 1, H0674: 1,	H0068: 1, H0090: 1,	H0056: 1, T0041: 1,	H0560: 1, H0561: 1,	S0440: 1, H0509: 1,	S0150: 1, H0646: 1,	S0144: 1, L0598: 1,	٦,	.0372: 1, L0773: 1,	.0804: 1, L0774: 1,	•	.0527: 1, L0659: 1,
os	<u> </u>	<u> </u>	Ħ	SC	SC	SC	SC	Ħ	SC	H	<u>H</u>	<u> </u>	<u>)I</u>	걸	H	Ĭ	Ħ	<u>H</u>	Ħ	<u>Ħ</u>	<u>田</u>	<u> </u>	SC	SC	Ĭ	ĭ	프	<u> </u>	끄
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1.0518: 1.1.0783: 1.	L0809: 1, L0647: 1,	H0144: 1, H0520: 1,	H0648: 1, S0328: 1,	S0152: 1, H0555: 1,	S3014: 1, L0747: 1,	L0749: 1, S0031: 1,	L0684: 1, S0436: 1,	L0608: 1, L0595: 1,	S0011: 1, S0026: 1,	H0136: 1, H0543: 1,	H0423: 1 and H0506: 1.	H0659: 2, L0438: 1	and L0439: 1.		H0521: 13, L0659: 10,	L0779: 10, H0551: 9,	S0360: 6, S0214: 6,	L0770: 6, L0649: 6,	L0666: 6, L0731: 6,	H0170: 5, H0638: 5,	S0376: 5, H0580: 5,	H0575: 5, H0553: 5,	S0210: 5, L0662: 5,	L0776: 5, L0657: 5,	H0547: 5, L0439: 5,	H0656: 4, S0358: 4,	H0676: 4, H0574: 4,	H0486: 4, H0318: 4,	S0003: 4, L0655: 4,
												His-25 to Lys-30.	•	Thr-19 to Leu-24.			-												
						-	-	,				3967		3968	3969	-													
				-								209 - 298	-	74 - 256	270 - 479			,											
							,					1792		1793	1794							•							
			,									HPCPX80R		HPCQ079R	HPCQ091R														
							7					HPCPX80		HPCQ079	HPC0091	)							•						

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.0663: 4, L0665: 4,	H0659: 4, L0756: 4,	.0757: 4, H0445: 4,	H0542: 4, S0212: 3,	H0009: 3, L0157: 3,	.0471: 3, H0024: 3,	H0494: 3, L0763: 3,	.0637: 3, L0646: 3,	.0764: 3, S0052: 3,	H0672: 3, L0748: 3,	,0750: 3, L.0752: 3,	L0755: 3, L0608: 3,	S0026: 3, H0543: 3,	H0171: 2, H0556: 2,	H0657: 2, L0785: 2,	S0420: 2, L0005: 2,	H0156: 2, S0474: 2,	H0581: 2, H0251: 2,	H0545: 2, H0373: 2,	H0477: 2, H0412: 2,	H0413: 2, T0041: 2,	S0466: 2, H0641: 2,	S0144: 2, L0372: 2,	.0774: 2, L0805: 2,	.0783: 2, L0664: 2,	S0374: 2, L0438: 2,	H0658: 2, H0670: 2,	H0660: 2, H0539: 2,	H0522: 2, H0436: 2,	.0742: 2, L0777: 2,
	<u>H</u>	<u> </u>	H	<u> </u>		<u>E</u>	<u></u>		<u>.</u>			S	<u> </u>	<u>.</u>	S	正	<u>æ</u>		<u>æ</u>	<u> </u>	S	S	<u> </u>	<u> </u>	<u></u>	<u> </u>	<u> </u>	<u> </u>	L
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,0758: 2, L0759: 2,	.0596: 2, L0599: 2,	.0362: 2, S0192: 2,	H0265: 1, S0040: 1,	H0295: 1, H0583: 1,	H0650: 1, S0116: 1,	H0663: 1, H0662: 1,	H0619: 1, S0278: 1,	H0261: 1, S0222: 1,	H0431: 1, H0592: 1,	H0586: 1, H0485: 1,	<u> </u>	H0427: 1, H0098: 1,	H0042: 1, H0004: 1,	H0274: 1, L0105: 1,	H0505: 1, H0052: 1,	10327: 1, H0544: 1,	10546: 1, H0046: 1,	H0150: 1, H0015: 1,	F0010: 1, H0510: 1,	H0375: 1, H0188: 1,	H0252: 1, H0328: 1,	H0039: 1, T0006: 1,	H0031: 1, L0055: 1,	H0032: 1, H0169: 1,	H0124: 1, H0598: 1,	H0090: 1, H0040: 1,	H0059: 1, L0564: 1,	H0560: 1, H0625: 1,	H0561: 1, H0647: 1,
107	LOS	<u>1.03</u>	H02	H02	H06	90H	90H	H02	H04	H05	H00	H04	H00	H02	HOS	H03	HOS	HOI	100	H03	H02	H00	100H	100H	H01	H00	00H	HOS	H05
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H0646: 1, S0142: 1, S0344: 1, S0002: 1, S0426: 1, H0695: 1, L0772: 1, L0765: 1, L0772: 1, L0648: 1, L0771: 1, L0804: 1, L0773: 1, L0804: 1, L0775: 1, L0806: 1, L0658: 1, R0520: 1, R0690: 1, R0690: 1, H0660: 1, R0690: 1, H0660: 1, S0330: 1, S0330: 1, R0690:					L0758: 6, L0779: 5, L0766: 4, L0731: 4,
		,		Pro-3 to Cys-9, Asn-28 to Phe-37.	
	3970	3971	3972	3973	3974
	113 - 271	119 - 265	1 - 345	2 - 229	259 - 408
	1795	1796	1797	1798	1799
	HPCQQ66R	HPCQT27R	HPCQT88R	HPCQW64 HPCQW64R	HPCQW77 HPCQW77R
	HPCQQ66	HPCQT27	HPCQT88	HPCQW64	HPCQW77

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S0360: 2, L0769: 2,	L0649: 2, H0648: 2,	L0744: 2, L0740: 2,	L0747: 2, L0777: 2,	L0755: 2, L0757: 2,	L0599: 2, H0171: 1,	T0049: 1, H0657: 1,	H0255: 1, H0638: 1,	S0408: 1, H0619: 1,	H0037: 1, H0052: 1,	L0471: 1, H0014: 1,	H0316: 1, S0438: 1,	L0520: 1, L0763: 1,	L0770: 1, L0637: 1,	L0761: 1, L0373: 1,	L0764: 1, L0774: 1,	L0775: 1, L0375: 1,	L0776: 1, L0655: 1,	L0527: 1, L0542: 1,	L0382: 1, L0519: 1,	H0144: 1, H0682: 1,	H0659: 1, H0660: 1,	H0696: 1, H0555: 1,	S3012: 1, L0439: 1,	L0751: 1, L0754: 1,	L0745: 1, L0749: 1,	-	S0384: 1.	
										•																		Lys-1 to Val-6.
																												3975
									:					-							,							174 - 326
		•																										1800
				•						•				-					-	,								HPCQX47R
																						-		•			 	HPCQX47

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				-			-						L0655: 22, H0648: 8,	H0638: 4, H0318: 4,	L0776: 4, L0659: 4,	L0751: 4, L0747: 4,	L0599: 4, S0358: 3,	L0761: 3, L0775: 3,	L0760: 2, H0255: 2,	H0663: 2, S0360: 2,	H0486: 2, L0142: 2,	H0087: 2, L0662: 2,	L0378: 2, L0653: 2,	L0783: 2, L0666: 2,	L0664: 2, L0665: 2,	L0743: 2, L0756: 2,	L0777: 2, L0362: 2,	L0600: 2, H0650: 1,
	Ser-8 to Lys-21,	Arg-72 to Arg-87.	Met-4 to Lys-18,	Gln-44 to Glu-49,	Arg-69 to Arg-84.	Asn-1 to Lys-20,	Gln-46 to Glu-51,	Arg-71 to Arg-86.	Asn-1 to Lys-21,	Gln-47 to Glu-52,	Arg-72 to Arg-87.																	-
3976	3977		3978			3979			3980			3981	3982															•
2 - 109	228 - 560		350 - 760			269 - 598			354 - 713			2 - 595	1 - 177				•	٠										
1801	1802		1803			1804			1805			1806	1807															
HPCRN90R	HPCTD21R		HPCTD23R			HPCTD25R			HPCTD61R	•		HPCTF29R	HPCTF83R															
HPCRN90	HPCTD21		HPCTD23			HPCTD25			HPCTD61			HPCTF29	HPCTF83															

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H0657: 1, H0692: 1,	H0381: 1, H0306: 1,	H0402: 1, H0305: 1,	S0376: 1, S0300: 1,	H0441: 1, L0622: 1,	L0623: 1, L0586: 1,	H0635: 1, L0022: 1,	H0042: 1, H0575: 1,	H0581: 1, H0052: 1,			 H0031: 1, H0166: 1,		H0163: 1, H0063: 1,		H0396: 1, H0647: 1,	H0646: 1, S0002: 1,	H0529: 1, L0762: 1,	L0769: 1, L0667: 1,	` è	L0771: 1, L0767: 1,	L0766: 1, L0774: 1,	L0784: 1, L0606: 1,	L0607: 1, L0629: 1,	L0657: 1, L0518: 1,	L0782: 1, L0809: 1,	L0787: 1, L0789: 1,	L0790: 1, L0663: 1,
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H0690: 1, H0659: 1, H0672: 1, H0651: 1, S0328: 1, S0378: 1, H0521: 1, H0522: 1, S0044: 1, H0214: 1, H0187: 1, L0748: 1, L0740: 1, L075: 1, H0445: 1, H0595: 1, S0106: 1, S0462: 1 and H0677: 1.					H0052: 3, H0624: 2,	H0014: 2, H0375: 2,	L0598: 2, L0662: 2,	L0803: 2, L0792: 2,	L0666: 2, L0664: 2,	H0659: 2, L0742: 2,	L0743: 2, L0754: 2,	H0423: 2, H0171: 1,	H0686: 1, S0360: 1,	H0486: 1, H0194: 1,	L0041: 1, L0471: 1,	H0687: 1, H0040: 1,	H0264: 1, S0440: 1,	S0422:-1, L0761: 1,	L0646: 1, L0804: 1,
		Lys-37 to Arg-42, Ser-74 to Thr-81.	Arg-6 to Asp-15.																
	3983	3984	3985	3986	3987					~									
	1 - 114	1 - 306	341 - 451	23 - 538	191 - 343		•								,				
	1808	1809	1810	1811	1812											-			
	HPCTI39R	HPCT186R	HPCTN62R	HPCT069R	HPCTP60R		,	-		_									
	HPCTI39	HPCTI86	HPCTN62	HPCTO69	HPCTP60														

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L0352: 1, H0670: 1, L0744: 1, L0740: 1, L0780: 1, L0759: 1 and H0506: 1.	L0803: 2, H0413: 1, L0650: 1, L0666: 1, H0689: 1, H0659: 1, H0658: 1, L0758: 1, L0759: 1 and S0242: 1.	·				L0439: 11, L0740: 10, L0752: 10, L0659: 8,	L0748: 7, L0005: 6,	S0358: 6, L0471: 6,	S0214: 6, L0803: 6,	L0517: 6, L0666: 6,	L0759: 6, L0664: 5,	L0665: 5, S0126: 5,	H0574: 4, H0156: 4,	L0646: 4, L0771: 4,	L0766: 4, S0374: 4,	H0659: 4, L0754: 4,	L0749: 4, L0731: 4,	L0362: 4, H0170: 3,	H0341: 3, H0632: 3,	S0003: 3, H0413: 3,	H0529: 3, L0369: 3,
		Gly-4 to Lys-9.		Pro-7 to Ala-13.		Asn-27 to Lys-36.												•			
	3988	3989	3990	3991	3992	3993														•	
	307 - 495	3 - 128	3 - 377	2 - 274	2 - 205	1 - 153				,							-				
	1813	1814	1815	<u> </u>	1817	<u> </u>															
	HPCTR60R	HPCTT47R	HPCTV40R	HPCTV53R	HPCTV92R	HPCTX22R				•			•								
	HPCTR60	HPCTT47	HPCTV40	HPCTV53	HPCTV92	HPCTX22															

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7: 3,	3, 3,	3; 3,	.,	2,	1: 2,	7: 2,	9: 2,	1: 2,	., 2,	1: 2,	5: 2,	7: 2,	8: 2,	3: 2,	1: 1,	7: 1,	5: 1,	3: 1,	F. 1,	8: 1,	3: 1,	?; 1,	8: 1,	4: 1,	0: 1,	4: 1,	5: 1,	6: 1,	5: 1,
.0770: 3, L0637: 3	.0775: 3, L0663: 3,	S0378: 3, H0478: 3,	S0026: 3, S0212: 2,	S0360: 2, H0580: 2,	S0045: 2, H0431: 2,	H0331: 2, H0427: 2,	H0599: 2, H0039: 2,	H0553: 2, H0551: 2,	S0002: 2, L0772: 2,	.0653: 2, L0654: 2,	.0776: 2, L0655: 2,	.0661: 2, H0547: 2,	H0519: 2, S0028: 2,	.0755: 2, H0543:	H0624: 1, H0171:	H065	H0656: 1, L0415: 1,	S0418	S0420: 1, S0354: 1,	H020	H0642: 1, H0013:	.0021: 1, T0082: 1,	S0010: 1, H0318:	H0052: 1, H0544:	H0123: 1, H0620:	H0024: 1, H0014:	H0275: 1, H0355:	H0510: 1, H0266:	H0615:
70: 3,	75:3,	78: 3,	26: 3,	60:2,	45: 2,	331: 2,	599: 2,	553: 2,	02: 2,	53: 2,	76: 2,	61:2,	519: 2,	755: 2,	524: 1,	02: 1,	556: 1,	16: 1,	120: 1,	130: 1,	542: 1,	21: 1,	10: 1,	<b>.</b> 52: 1,	123: 1,	324: 1,	275: 1,	510: 1,	H0290: 1,
1707	<u>1</u>	S03	80	S03	<u>S</u>	HO	)H	H0,	<u>80</u>	<u> </u>	101	<u>2</u>	<u>E</u>	<u>8</u>	Ě	<u>10</u>	HOH	S01	S04	100	<u>Ö</u>	<u> </u>	<u> </u>	Œ	HO	HO	E E	)H	H0;
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L0483: 1, H0048: 1,	H0644: 1, H0032: 1,	H0068: 1, H0040: 1,	H0380: 1, T0069: 1,	H0560: 1, H0625: 1,	H0561: 1, S0440: 1,	H0509: 1, H0641: 1,	H0646: 1, S0144: 1,	S0422: 1, S0426: 1,	L0373: 1, L0388: 1,	L0651: 1, L0378: 1,	L0809: 1, L0647: 1,	L0438: 1, H0689: 1,	H0683: 1, H0684: 1,	H0648: 1, S0330: 1,	H0539: 1, H0521: 1,	S0013: 1, L0779: 1,	L0758: 1, H0667: 1,	H0136: 1, S0194: 1,	H0542: 1, H0422: 1 and	S0424: 1.	L0666: 19, L0752: 14,	S0358: 12, L0770: 10,	L0439: 10, L0754: 10,	L0659: 8, H0574: 7,	L0663: 7, L0664: 7,	H0659: 7, L0758: 7,	L0759: 7, S0408: 6,	H0519: 6, L0740: 6,	L0750: 6, L0731: 6,
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J0717: 5, L0771: 5	.0775: 5, L0776: 5,	.0783: 5, H0648: 5	.0756: 5, L0362: 5	S0442: 4, H0413: 4,	S0422: 4, L0638: 4,	.0646: 4, H0547: 4,	.0748: 4, L.0592: 4,	H0170: 3, H0580: 3,	H0266: 3, H0591: 3,	H0529: 3, L0637: 3,	.0803: 3, L0774: 3,	.0665: 3, H0660: 3,	L0747: 3, H0542: 3,	543: 3, H0657	S0420: 2, S0354: 2,	S0444: 2, S0360: 2,	H0013: 2, H0544: 2,	H0015: 2, H0051: 2,	H0687: 2, H0328: 2,	H0674: 2, S0036: 2,	10412: 2, S0438: 2,	S0440: 2, L0640: 2,	769: 2, L0773:	662: 2, L0766:	.0650: 2, L0806: 2,	,0805: 2, H0144: 2,	S0374: 2, H0691: 2,	S0328: 2, S0330: 2,	H0696: 2, L0751: 2,
ITO	<u>2</u>	<u>ro</u>	<u>2</u>	OS	<u>S</u>	<u>2</u>	2	<u> </u>	0 <u>H</u>	OH HO	<u>2</u>	<u> </u>	<u>21</u>	OH	SO	<u>SO</u>	OH OH	<u>) H</u>	OH OH	)H	OH.	SO	<u> </u>	<u>n</u>	<u>1</u>	<u>2</u>	<u>os</u>	<u>S0</u>	HC
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, L059	, H04	l, H06	l, H06	, S02	, H06	l, H02	, 5030	1, 101	l, H00	l, S60	, S00C	l, H04	, H01	l, H05	, L05	, H06	l, S04	(, L03	, L07	, L07	, L06	, L03	, L0648:	, L07	, L0651:	, L06	, L0807:	, L0657:	, L05
S0436: 2, L0591: 2,	.0581: 2, H0423: 2	H0624: 1, H0685: 1	H0583: 1, H0656: 1,	341: ]	S0282: 1, H0662: 1	H0208: 1, H0208: 1,	30045: 1, S0300: 1,	H0455: 1, L0105: 1	H0123: 1, H0024:	H0239: 1, S6028: 1,	S0250: 1, S0003: 1,	H0615: 1, H0428:	70006: 1, H0135:	H0616: 1, H0551:	30386: 1, L0564:	T0041: 1, H0625:	H0509: 1, S0472:	H0646: 1, L0369:	.0762: 1, L0763:	4747: 1, L0796:	.0639: 1, L0667:	.0772: 1, L0372:	.0642: 1,	.0767: 1, L0794:	,0804: 1, ]	.0653: 1, L0606:	.0607: 1,	0527: 1,	.0512: 1, L.0526:
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	Asp-1 to Leu-6.		Gln-20 to Leu-25.	Asp-11 to Val-19,	Cys-36 to Asp-58,	Lys-102 to Lys-111,	lle-115 to Ala-125,	Val-127 to Gln-132.						-			
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	57 - 209	1-99	3 - 287	2-412										•			
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4.4	521:4	559: 4	74: 4	123: 4	716:	76:3	74:3	553:	112:	551: 3	138: 3	135:	27:3	565:	543:	49:2	42:2	110:2	:76:2	<b>427:</b> 2	706: 3	581: 2	530: 2	10:2	515: 2	517: 2	573: 2	338: 2	50:2
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S0222: 1	H0455: 1	H0592: 1	H0331: 1	H0485: 1	T0109: 1	H0156: 1	H0004: 1	S0346: 1	H0052: 1	H0597: 1	H0123: 1	L0471: 1	H0594: 1	H0252: 1	L0142: 1	H0617: 1		L0455: 1	H0598: 1	H0163: 1	H0264: 1	H0413: 1	T0041: 1	H0561: 1	S0438: 1	H0131: 1	S0344: 1	S0002: 1	L0451: 1
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																									1 - 504	2 - 178	294 - 485		94 - 291
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	L0784: 2, H0428: 1, H0644: 1, S0366: 1, L0659: 1, L0636: 1, L0789: 1 and H0658: 1.	L0766: 2 and H0658: 2.		L0794: 4, H0351: 3, H0083: 2, H0520: 2, H0658: 2, H0657: 1, H0341: 1, S0358: 1, L0586: 1, L0021: 1, T0110: 1, H0328: 1, H0040: 1, H0616: 1, H0625: 1, S0438: 1, S0440: 1, S0150: 1, L0800: 1, L0768: 1, L0803: 1, L0776: 1, L0657: 1, H0660: 1, S0328: 1, S0380: 1, S0406: 1, L0747: 1, H0343: 1, H0422: 1 and S0424: 1.	
		·	Gln-15 to Arg-20, Arg-35 to Ser-40.	Ile-5 to Lys-20.	Asp-28 to His-35, Phe-43 to Trp-48, Asn-81 to Arg-86.
4006	4007	4008	4009	4010	4011
1 - 420	365 - 3	260 - 463	369 - 581	244 - 456	80 - 463
1831	1832	1833	1834	1835	1836
HPDPK37R	HPDPN83R	НРДРР69К	HPDPQ10R	<b>НР</b> DРQ16R	HPDPR73R
HPDPK37	HPDPN83	НРОРР69	HPDPQ10	HPDPQ16	HPDPR73

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L0770: 4, L0771: 4, L0769: 3, L0757: 3, L0768: 2, L0779: 2, L0758: 2, H0170: 1, H0686: 1, S0476: 1, H0586: 1, L0637: 1, L0774: 1, L0776: 1, L0774: 1, L0776: 1, L0791: 1, H0658: 1, H0696: 1, S3012: 1, S0390: 1, L0747: 1, L0752: 1, L0753: 1, L0752: 1, L0753: 1, L0759: 1, and H0543: 1.		L0439: 4, H0658: 2, S0474: 1, L0794: 1, L0804: 1, L0791: 1, L0755: 1 and L0599: 1.						
		Asp-17 to Asn-30.			Lys-32 to Glu-39, Glu-43 to Ala-50, Ala-52 to Glu-80.			
4012	4013	4014	4015	4016	4017	4018	4019	4020
2 - 214	2 - 421	378 - 533	2 - 262	2 - 418	148 - 405	1 - 693	2 - 235	2 - 334
1837	1838	1839	1840	1841	1842	1843	1844	1845
HPDPS51R	HPDPS90R	HPDPT86R	HPDPU66R	HPDPX12RP 00B	HPDPY83RP 00B	HPDQC34R	HPDQG58R	HPDQH11R
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H0519: 1, H0711: H0659: 1, H0658: H0666: 1, H0648:	10672: 1, 50378: 10602: 1, H0518: 10522: 1, S0406: 10555: 1 H0187:	S0027: 1, 10167. S0027: 1, S0032: 1 L0742: 1, L0754: 1 L0747: 1, L0780: 1	L0757: 1, L0759: S0031: 1, S0436: L0592: 1, L0581:		H0667: 1, H0542: 1 H0422: 1 and H035	L0779: 5, L0803: 4, H0170: 3, L0663: 3,	2,777: 3, H0687: 2, H0328: 2, H038: 2, L0809: 2,	L0759: 2, L0589: 2 H0171: 1, S0046: 1 S0300: 1, L0717: 1	50203: 1, E0717: 1 H0369: 1, H0550: S0222: 1, H0586: 7 H0574: 1, H0042:	S0010; 1, H0544: H0620: 1, H0014:
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					Pro-5 to Arg-25,	Lys-32 to Ser-39, Pro-63 to Pro-79,	Pro-115 to His-121.						
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L0659: 9, L0666: 9,	L0803: 8, L0662: 7,	L0747: 7, L0794: 6,	L0663: 5, S0406: 5,	L0770: 4, L0731: 4,	L0758: 4, S0026: 4,	S0356: 3, L0717: 3,	H0156: 3, L0769: 3,	L0809: 3, L0664: 3,	H0520: 3, H0672: 3,	H0521: 3, H0696: 3,	L0750: 3, S0192: 3,	H0542: 3, H0423: 3,	H0624: 2, H0657: 2,	S0420: 2, S0358: 2,	S0376: 2, S0408: 2,	H0013: 2, S0003: 2,	S0214: 2, H0264: 2,	H0412: 2, H0413: 2,	S0440: 2, L0764: 2,	L0766: 2, L0804: 2,	L0774: 2, L0775: 2,	L0806: 2, L0655: 2,	L0665: 2, S0374: 2,	L0438: 2, H0547: 2,	H0519: 2, H0689: 2,	H0660: 2, S0380: 2,	H0522: 2, S0206: 2,	L0749: 2, L0752: 2,	L0759: 2, L0361: 2,
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S0242: 2	H0171: 1	H0685: 1	S0114: 1	L0785: 1	S0442: 1	S0300: 1	H0431: 1	H0632: 1, ]	H0069: 1	H0581: 1	H0263: 1	H0545: 1	L0471: 1	H0014: 1,	H0083: 1	H0615: 1	H0622: 1,	H0068: 1	H0598: 1	H0090: 1	T0067: 1	T0069: 1	S0372: 1	H0714: 1	S0142: 1	L0369: 1, I	L0641: 1,	L0387: 1	L0378: 1
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	Gln-121 to Glu-136, Ala-153 to Ser-162, Ala-176 to Ser-182.			Phe-25 to Arg-34,	Cys-51 to His-56, Glu-66 to Ser-75.		Uis 2 to Trn 12	Lys-22 to Cys-31.			Gly-17 to Glu-26,	Lys-32 to Leu-37, Phe-46 to Thr-52,
	4027	4028	4029	4030		4031	4023	7004			4033	,
	2 - 550	113 - 325	25 - 273	25 - 258		134 - 322	11 175	C/T = :14			3 - 410	
	1852	1853	1854	1855		1856	1057	1657			1858	
	HPDQR88R	HPDOS14R	HPDOS25R	HPDQS63R		HPDQS66R	ayLaCdan	nr DQ3/0R			HPDQT32R	
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S0420: 4, S0010: 4,	S0142: 4, L0659: 4,	L0743: 4, L0747: 4,	L0753: 4, H0657: 3,	H0370: 3, H0618: 3,	H0251: 3, H0545: 3,	H0457: 3, H0620: 3,	H0644: 3, H0560: 3,	L0775: 3, L0663: 3,	H0672: 3, S3012: 3,	L0748: 3, S0212: 2,	S0418: 2, S0360: 2,	H0580: 2, S0222: 2,	H0427: 2, H0253: 2,	S0049: 2, H0327: 2,	L0471: 2, H0617: 2,	H0124: 2, S0366: 2,	H0412: 2, L0667: 2,	L0655: 2, H0690: 2,	H0682: 2, H0658: 2,	H0670: 2, H0660: 2,	H0627: 2, S0027: 2,	L0741: 2, L0740: 2,	H0506: 2, H0170: 1,	T0002: 1, H0686: 1,	H0381: 1, H0484: 1,	H0255: 1, H0663: 1,	H0664: 1, H0638: 1,	S0358: 1, H0675: 1,	H0637: 1, S0468: 1,
He-103 to Gly-109,	Lys-128 to Gln-136.					-	-																						
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		Pro-25 to Thr-32.			
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		AR104: 42, AR089:	Met-75 to Asp-81, [22, AR060: 7, AR096:	4, AR055: 2, AR061:	-											,						H0031: 2, H0135: 1,	H0272: 1 and H0658: 1.				
		Asn-20 to Asp-25,	Met-75 to Asp-81,	Arg-144 to Thr-152.		Lys-1 to Leu-23,	Ala-27 to Ser-34,	Gly-36 to Phe-44.		,		Leu-11 to Cys-24,	Leu-30 to Ser-36,	Gly-93 to Glu-99.		Ser-120 to Tyr-126,	Gly-137 to Arg-142,	Ser-160 to Ser-168.			Glu-1 to Pro-9.			Ala-2 to Gly-8.			Gly-1 to Cys-24,
4035	4036	4037				4038		ĺ	4039	4040	4041	4042			4043	4044			4045	4046	4047	4048		4049	4050	4051	4052
2 - 421	246 - 401	.055 - 89		,		113 - 391			3 - 476	3 - 437	164 - 340	29 - 430			212 - 538	3 - 506			1 - 525	1 - 384	230 - 559	79 - 270		2 - 481	1 - 177	3 - 302	2 - 307
1860	1981	1862				1863			1864	1865	1866	1867			1868	1869			1870	1871	1872	1873		1874	1875	1876	1877
HPDQV07   HPDQV07R	HPDQV49R	HPDQW39 HPDQW39R				HPDQX13R			HPDQY23R	HPDQY65R		HPDQY95R			HPDQZ30R	HPDQZ65R			HPDRA44R	HPDRA50R	HPDRF65R	HPDRG34R		HPDRG73R	HPDRM77   HPDRM77R	HPDRM93   HPDRM93R	HPDRO04R
HPDQV07	HPDQV49	HPDQW39				HPDQX13			HPDQY23	HPDQY65	HPDQY88	HPDQY95			HPDQZ30	HPDQZ65			HPDRA44	HPDRA50	HPDRF65	HPDRG34		HPDRG73	HPDRM77	HPDRM93	HPDRO04

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Cys-27 to Gly-43,	Ala-46 to Trp-54,	Ala-56 to Arg-68,	Phe-83 to Arg-93.	Thr-4 to His-17,	Ser-21 to Gln-27.			Thr-57 to Phe-62,	Gly-68 to Phe-73,	His-86 to Tyr-92,	Asp-97 to Phe-103.		•		-								. •.				-	•	
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									•											Gly-8 to Val-14, Gln-20 to Asp-27,	Met-79 to His-88,	Arg-171 to Tyr-183, Pro-198 to Glv-204				
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	Gly-6 to Ser-16, Glu-19 to Ala-33, Glu-44 to Lys-60, Ile-135 to Lys-147. Ala-3 to Lys-11, Gly-112 to Glu-117. Lys-94 to Ser-100. Lys-32 to Glu-38, Ser-44 to Ser-55, Gln-67 to Gly-78, Glu-85 to Glu-90, Gly-108 to Ser-114, Phe-140 to I ve-158
	4057 4058 4060 4060 4061
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, L07.	H0521: 15, L0777: 11	.0766: 8, L0755: 7	H0581: 6, L0659: 6,	.0751: 6, H0486: 5,	10266: 5, H0553: 5,	.0662: 5, L'0663: 5,	H0144: 5, L0439: 5	S0276: 5, H0638: 4,	S0360: 4, H0644: 4,	30374: 4, S0330: 4,	.0740: 4, L0756: 4,	.0599: 4, L0362: 4,	H0423: 4, H0657: 3	H0580: 3, H0580: 3,	HO575: 3, S0003: 3,	H0622: 3, H0124: 3	H0264: 3, H0623: 3,	S0002: 3, L0520: 3,	.0764: 3, L0775: 3,	,0655: 3, L0519: 3,	H0519: 3, H0659: 3,	H0658: 3, S0328: 3,	J0744: 3, L0747: 3,	.0759: 3, S0026: 3,	S0194: 3, H0624: 2,	H0656: 2, H0341: 2,	S0354: 2, S0408: 2,	S0046: 2, H0619: 2,	H0013: 2, H0250: 2,
54: 19	1: 15,	5: 8, L	1: 6, I	l: 6, F	6: 5, I	2: 5, I	4: 5, I	5: 5, E	): 4, E	1: 4, S	): 4, <u>I</u>	<b>9</b> : 4, I	3:4,1	3: 3, I	5:3,8	2: 3, I	4: 3, I	2: 3, I	4: 3, I	5: 3, I	9: 3, I	8:3,5	4: 3, I	9:3, S	4: 3, F	6: 2, I	4: 2, S	5: 2, F	3: 2, 1
<i>1</i> 07	H052	L076	H058	1.075	H026	T066	H014	S027	S036	S037	L074	1059	H042	990H	H057	H062	H026	<u>S000.</u>	1076	1,065	H051	H065	1.074	L075	S019	H065	S035	S004	H001
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4062 Lys-25 to Arg-36.																													,
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H0545: 2	H0428: 2	H0551: 2	H0561: 2	\$0210: 2	L0771: 2	L0803: 2	L0544: 2, J	L0666: 2, ]	S0216: 2	H0648: 2	H0522: 2	H0345: 2	L0750: 2	L0752: 2	H0445: 2	L0591: 2	H0653: 2	H0159: 1	H0583: 1	S0212: 1	H0662: 1	S0358: 1	T0008: 1	S0132: 1,	H0369: 1	T0039: 1,	H0042: 1,	T0048: 1	H0596: 1
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H0046: 1, L0157: 1,	H0565: 1, H0024: 1,	S0388: 1, H0267: 1,	S0250: 1, S0214: 1,	H0328: 1, H0030: 1,	H0383: 1, H0673: 1,	H0169: 1, H0316: 1,	3: 1, H0090: 1,	H0591: 1, H0040: 1,	4: 1, H0488: 1,	8: 1, H0412: 1,	H0413: 1, H0056: 1,	.0435: 1, H0494: 1,	S0370: 1, H0646: 1,	H0652: 1, S0344: 1,		,0646: 1, L0800: 1,		8: 1, L0389: 1,	2: 1, L0774: 1,	5: 1, L0653: 1,	.0776: 1, L0658: 1,	L0542: 1, L0809: 1,	7: 1, H0701: 1,	H0691: 1, S0126: 1,	H0711: 1, H0683: 1,	H0518: 1, S0454: 1,	3: 1, H0479: 1,	S0206: 1, L0743: 1,	S0260: 1, H0343: 1,
H004	950H	8038	8025	H032	H038	H016	H016	H059	H0634: 1	H0268: 1	H041	1043	S037	H065	S0426: 1,	1,064	1.0765: 1	L0768: 1	L0552: 1	L0805: 1	L077	1.054	1064	690H	H071	H051	S001	8020	8026
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L0584: 1, H0542: 1 and	30416. 1.												L0794: 6, L0758: 6,	L0747: 5, L0770: 4,	L0809: 4, H0620: 3,	L0764: 3, H0658: 3,	H0618: 2, H0012: 2,	H0135: 2, L0769: 2,	L0771: 2, L0773: 2,	L0662: 2, L0803: 2,	L0532: 2, S0126: 2,	L0756: 2, S6024: 1,	S0282: 1, H0638: 1,	S0420: 1, L0717: 1,	S0222: 1, H0441: 1,	H0333: 1, L0622: 1,	H0309: 1, H0597: 1,	S0388: 1, S0051: 1,
	0-03 to 4 6-01	Aro-18 to Glv-26	Asn-34 to Arg-43.	Ala-52 to Asp-57.	Leu-48 to Lys-63.		Glu-11 to Pro-16,	Arg-46 to Tyr-56,	Asp-63 to Asp-69.		Glu-54 to Val-64,	Leu-97 to Leu-105.	Ser-14 to Gly-20.	•													-	
	4063	3			4064	4065	4066			4067	4068		4069				,											
	3 - 560				2 - 196	2 - 334	1 - 297			458 - 703	1 - 528		300 - 596												-			
	1999	2001			1889	1890	1891			1892	1893		1894		,													
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	UPD T27	) CINIC III			HPDRT38	HPDRU03	HPDRU37			HPDRU71	HPDRV73		HPDRV79															

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T0010: 1, H0271: 1,	H0687: 1, L0483: 1,	H0604: 1, H0030: 1,	H0181: 1, H0617: 1,	H0412: 1, L0667: 1,	L0646: 1, L0800: 1,	L0643: 1, L0374: 1,	L0364: 1, L0766: 1,	L0649: 1, L0804: 1,	L0523: 1, L0805: 1,	L0655: 1, L0607: 1,	L0657: 1, L0559: 1,	L0659: 1, L0517: 1,	L0529: 1, L0647: 1,	L0787: 1, L0789: 1,	L0666: 1, L0663: 1,	L0665: 1, T0068: 1,	L0438: 1, H0670: 1,	H0627: 1, L0748: 1,	L0439: 1, L0751: 1,	L0777: 1, L0731: 1,	L0757: 1, S0031: 1,	L0605: 1, H0542: 1,	H0543: 1, H0423: 1,	L0697: 1 and S0462: 1.					
																									Ala-31 to Gln-37,	Lys-63 to Ser-69.		Pro-3 to Gly-8,	110-10 10 10-00.
																									4070		4071	4072	
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																									1895		1896	1897	
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	H0457: 9, L0766: 7,	H0046: 5, H0650: 4,	H0634: 3, L0659: 3,	L0439: 3, H0716: 2,	H0656: 2, H0254: 2,	H0255: 2, H0333: 2,	H0253: 2, H0081: 2,	H0083: 2, H0628: 2,	L0761: 2, L0800: 2,	H0658: 2, L0750: 2,	H0543: 2, H0422: 2,	H0265: 1, H0657: 1,	S0001: 1, S0420: 1,	S0354: 1, S0376: 1,	S0360: 1, H0722: 1,	S0045: 1, H0550: 1,	S0222: 1, H0614: 1,	H0613: 1, H0069: 1,	H0427: 1, H0575: 1,	H0318: 1, H0581: 1,	H0052: 1, H0327: 1,	H0545: 1, H0041: 1,	H0050: 1, H0354: 1,	H0266: 1, H0179: 1,	H0428: 1, H0622: 1,	S0366: 1, S0036: 1,	H0087: 1, H0264: 1,	H0488: 1, L0435: 1,
Arg-13 to Gly-26, Asn-35 to Gln-40.	Val-30 to Trp-36,	Ala-53 to Glu-67.																										
4073	4074																											
1 - 354	3 - 509																	•		-								
1898	1899													·														
HPDRZ11R	HPDRZ29R																											
HPDRZ11	HPDRZ29																											

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H0022: 1, T0041: 1, H0560: 1, S0142: 1, S0426: 1, H0695: 1, L0764: 1, L0644: 1, L0764: 1, L0662: 1, L0809: 1, L0375: 1, L0809: 1, L0789: 1, L0792: 1, L0532: 1, L0663: 1, L0664: 1, L0663: 1, H0670: 1, H0672: 1, S0330: 1, H0521: 1, S0406: 1, H0555: 1, H0436: 1, S3012: 1, S0028: 1, L0744: 1, L0749: 1, L0756: 1, H0445: 1, S0434: 1, H0136: 1,		٠	L0748: 10, L0803: 3, L0439: 3, L0751: 3,	L0626: 2, L0809: 2,	L0790: 2, H0658: 2,	L0744: 2, L0740: 2,	L0754: 2, L0747: 2,	L0756: 2, L0752: 2,
			Pro-2 to Lys-18.					
	4075	4076	4077					
	774 - 484	243 - 380	40 - 315				<del>`</del>	
,	1900	1901	1902					
	HPDVA01R	HPDVA06R	HPDVB37 HPDVB37R					
·	HPDVA01	HPDVA06	HPDVB37					

L0758: 2, H0170: 1, H0645: 1, H0351: 1, H0370: 1, H0497: 1, S0388: 1, T0067: 1, L0772: 1, L0643: 1, L0804: 1, L0774: 1, L0776: 1, L0774: 1, L0776: 1, L0666: 1, L0663: 1, L0665: 1, L0438: 1, S0044: 1, L0745: 1, L0749: 1, L0755: 1, L0757: 1 and S0031: 1.			-			•		-				-				
			Pro-8 to Pro-13.	Gln-22 to Val-33,	Pro-37 to Gly-45,	Ser-56 to Thr-65,	Arg-82 to Thr-92.	Glu-79 to Gln-86.	Met-32 to Lys-37,	Asp-44 to Ala-60.	Ala-32 to Thr-42,	Lys-55 to Phe-60,	Asp-85 to Gly-90,	Arg-95 to Thr-100.	Ile-20 to Gly-29,	Asn-82 to Thr-87.
	4078	4079	4080	4081				4082	4083		4084				4085	
	2 - 778	50 - 136	89 - 220	3 - 326				193 - 450	1-510		3 - 338				3 - 425	
	1903	1904	1905	1906				1907	1908		1909				1910	
	HPDVB70R	HPDVC28R	HPDVE55R	HPDVG06 HPDVG06R				HPDVG67R	HPDV125R		HPDV195R				HPDVK74 HPDVK74R	
	HPDVB70	HPDVC28	HPDVE55	HPDVG06				HPDVG67	HPDVI25		HPDVI95				HPDVK74	

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			H0656: 3, S0218: 1,	S0116: 1, S0356: 1,	H0586: 1, H0333: 1,	H0486: 1, H0427: 1,	S0280: 1, H0545: 1,	H0135: 1, H0087: 1,	H0695: 1, H0547: 1,	H0435: 1, H0658: 1,	H0670: 1, H0672: 1,	H0521: 1, L0439: 1,	H0543: 1 and H0423: 1.	H0656: 1, S0116: 1,	S0376: 1, T0110: 1,	T0042: 1, H0494: 1,	L0649: 1, L0774: 1,	L0665: 1, H0658: 1,	L0748: 1, L0757: 1,	H0667: 1 and H0543: 1.							
4086 Arg-8 to Lys-13, Gly-35 to Lys-42, Ala-48 to Lys-54.			Gly-1 to Phe-8,	Pro-39 to Thr-61,	Pro-66 to Phe-71,	Arg-84 to Pro-89.			,	٠				Ala-5 to Val-11,	Leu-15 to Lys-23,	Lys-39 to Ile-44.					Lys-13 to Leu-24,	Arg-31 to Pro-54.	Ala-34 to Thr-46,	Asp-59 to Lys-73,	Ala-86 to Gln-94,	Pro-99 to Gln-109,	Glu-129 to Thr-141,
4086	4087	4088	4089											4090							4091		4092				
61 - 597	2 - 697	8 - 265	1 - 303											60 - 350							101 - 364		1 - 576				
1911	1912	1913	1914											1915			•				1916		1917				
HPDVK79 HPDVK79R	HPDVK93R	HPDVL36 HPDVL36R	HPDVL45R											HPDVL52R							HPDVM61 HPDVM61R		HPDVM63R				
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	١	H0521: 43, S0278: 39,	: 26,	<b>4</b> : 15,	S0002: 14, H0638: 13,	10580: 11, H0641: 10,	<ul><li>3: 10,</li></ul>	∞; ∞	: 7,	۲,	7,	•	6,	: 6,	۶,	λ,	4,	4,	4,	4,	4,	4,	4,	4,	ິຕ໌	بى	ε. Έ	.3,	3,
		, S02	S0144: 30, S0142: 26,	S034	H063	H064	.0755: 10, L0599: 10,	H0250: 9, H0271: 8,	H0622: 8, H0575: 7,	30426: 7, L0775: '	.0776: 7, L0751:	.0754: 7, H0125: 6,	S0376: 6, S0132: 6,	H0069: 6, H0090: 6,	S0360: 5, H0486: 5,	S0022: 5, L0731: 5,	H0584: 4, H0657: 4,	S0354: 4, S0358: 4	S0140: 4, H0581: 4,	H0674: 4, L0764: 4,	.0657: 4, L.0665: 4,	S0052: 4, S0428: 4,	.0749: 4, L0752: 4,	H0445: 4, L0591: 4,	H0656: 3, L0785: 3,	H0663: 3, H0370: 3,	H0042: 3, H0004: 3,	H0318: 3, H0031: 3,	H0059: 3, L0769: 3
		1: 43,	30, 8	18,	14, I	: 11,	10,1	H,6:	8, H	7, L	7, L	7, H	6, S(	6, H	5, H	5, L(	4, H	4, S(	4, H	4, L	4, L	4, S(	4, Ľ	4, T	3, L	3, H	3, H	3, H	3, T
		1052	144	0522	3002:	0580	0755:	0220	0622	3426:	3776:	3754:	3376:	6900	360:	3022:	0584	354:	)140:	0674	3657:	3052:	3749:	0445	9590	0663	0042	0318	0059
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Asp-160 to Asn-	~	a-33	Thr-58 to Pro-66.		:		•															,							
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	H0544: 1, H0546: 1,	H0046: 1, H0012: 1,	H0620: 1, H0024: 1,	H0107: 1, H0179: 1,	H0416: 1, H0188: 1,	S0003: 1, H0688: 1,	H0029: 1, H0553: 1,	L0142: 1, H0628: 1,	L0055: 1, H0383: 1,	H0673: 1, H0189: 1,	H0124: 1, H0068: 1,	H0063: 1, H0087: 1,	30472: 1, L0369: 1,	L0762: 1, L0761: 1,	L0772: 1, L0773: 1,	£,	L0387: 1, L0766: 1,	l,	1,	L0784: 1, L0652: 1,		L0629: 1, L0544: 1,	L0367: 1, L0368: 1,	L0787: 1, L0788: 1,	S0053: 1, S0216: 1,	S0374: 1, S0296: 1,	H0682: 1, H0684: 1,	S0328: 1, S0332: 1,
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H0214: 1, S0404: 1,	H0576: 1, L0779: 1,	LU/80: 1, LU/5/: 1,	L0593: 1, S0011: 1,	H0665: 1, H0542: 1,	H0423: 1 and S0458: 1.	4, AR096:		AR061: 2, AR060: 2,	AR104: 2, AR033: 1,	AR055: 1, AR053: 0	L0666: 4, H0253: 2,	H0622: 2, H0670: 2,	L0743: 2, H0181: 1,	L0372: 1, L0773: 1,	L0767: 1, L0657: 1,	L0665: 1, H0658: 1,	L0751: 1, L0749: 1,	L0779: 1, L0777: 1,	L0758: 1 and L0593: 1.			H0658: 2	L0754: 2, H0685: 1,	T0010: 1, H0658: 1 and	H0423: 1.				
•	-			•		Glu-1 to Asp-6,	Thr-11 to Glu-20,	Val-61 to Gln-66.												Pro-1 to Ala-9,	Arg-17 to Glu-25.						Val-1 to Glu-9,	Pro-26 to Gly-31,	Tyr-67 to Glu-74,
						4094														4095		4096	4097			4098	4099		
		,	٠			1-465					•••									3 - 278		29 - 421	3 - 284			1 - 333	91 - 693		
						1919														1920		1921	1922			1923	1924		
						HPDVO67R									•					HPDVQ74 HPDVQ74R		HPDVQ82R	HPDVT30R			HPDVT37R	HPDVU28R		
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Phe-107 to Glu-118,	Lys-162 to Arg-173.	Ser-1 to His-7, Thr-15 to Arα-29	His-31 to Val-42,	Pro-52 to Pro-94,	Glu-113 to Ala-131,	Lys-161 to Arg-167.	)									-								,				
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H0684: 1, H0658: 1,	L0752: 1, L0755: 1,	L0731: 1, L0757: 1,	L0595: 1, S0276: 1 and	H0506: 1.			H0658: 2						-			H0271: 13, H0436: 11,	L0766: 8, H0581: 5,	L0754: 5, S0242: 5,	H0556: 4, H0635: 4,	L0800: 4, L0662: 4,	L0804: 4, L0655: 4,	L0659: 4, L0789: 4,	L0751: 4, L0757: 4,	L0591: 4, S0356: 3,	H0069: 3, H0416: 3,	L0803: 3, L0747: 3,	H0445: 3, H0423: 3,	H0422: 3, H0395: 2,
					Pro-6 to Ala-16.	,			Arg-1 to Glu-8,	Ala-31 to Trp-39.		Ala-3 to Ala-10,	Pro-15 to Pro-23,	Glu-79 to Ser-88,	Pro-115 to Arg-122.													
					4101	4102	4103	4104	4105		4106	4107				4108												
		-			3 - 191	78 - 644	3 - 302	3 - 560	175 - 306		231 - 383	1 - 390				214 - 471												
					1926	1927	1928	1929	1930		1931	1932				1933												
				. •	HPDVU88R	HPDVV78R	HPDWA35 HPDWA35R	HPDWA88 HPDWA88R	HPDWB40 HPDWB40R		HPDWC30 HPDWC30R	HPDWC75 HPDWC75R				HPDWD44 HPDWD44R											2	
					HPDVU88	HPDVV78	HPDWA35	HPDWA88	HPDWB40		HPDWC30	HPDWC75			,	HPDWD44												

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S0134: 2. H0662: 2.	H0402: 2, S0354: 2,	S0046: 2, S0132: 2,	H0587: 2, H0642: 2,	H0014: 2, H0179: 2,	10644: 2, H0032: 2,	10090: 2, H0396: 2,	10633: 2, S0422: 2,	L0375: 2, L0806: 2,	)607: 2, L0666: 2, · ·	3663: 2, S0052: 2,	S0053: 2, S0216: 2,	10521: 2, L0740: 2,	,0779: 2, L0777: 2,	.0758: 2, L0596: 2,	1599: 2, H0394: 1,	S0114: 1, H0657: 1,	H0656: 1, S0298: 1,	H0306: 1, S0376: 1,	H0411: 1, H0607: 1,	H0632: 1, H0257: 1,	0492: 1, H0486: 1,	,0021: 1, H0318: 1,	H0196: 1, H0545: 1,	H0457: 1, H0083: 1,	S6028: 1, L0483: 1,	H0591: 1, H0634: 1,	H0623: 1, H0560: 1,	H0641: 1, S0344; 1,	.0770: 1, L0372: 1,
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L0646: 1, L0794: 1, L0774: 1, L0653: 1, L0776: 1, L0657: 1, L0783: 1, L0664: 1, L0665: 1, S0428: 1, S0374: 1, H0689: 1, H0690: 1, H0658: 1, H0672: 1, S0378: 1, H06718: 1, H0576: 1, L0749: 1, H0543: 1 and S0458: 1.				L0/69: 9, H06/0: 9, S0328: 9, H0651: 8,	S0406: 8, H0657: 7,	H0341: 7, H0402: 7,	H0659: 7, L0748: 7,	H0543: 7, T0049: 6,	H0251: 6, L07/5: 6, 1.0742: 6. H0422: 6.	L0471: 5, H0617: 5,	S0440: 5, L0517: 5,	S0374: 5, H0658: 5,	H0696: 5, L0749: 5,	H0423: 5, H0295: 4,	S0114: 4, S0134: 4,
	Asp-65 to Gly-73.	Ser-1 to His-19, Val-86 to Pro-105,	Pro-110 to Met-117.												
	4109	4110						-							
	220-2	3 - 353													
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H0656: 4, H0639: 4.	H0687: 4, H0606: 4,	.0767: 4, L.0518: 4,	.5286: 4, H0682: 4,	.0752: 4, L0759: 4,	L0361:	H0685: 3, H0294: 3,	H0305: 3, S0356: 3,	S0358: 3, S0360: 3,	H0722: 3, S0046: 3,	.0622: 3, H0486: 3,	F0109: 3, T0003: 3,	F0067: 3, H0412: 3,	S0438: 3, S0422: 3,	.0520: 3, L0371: 3,	L0768:	L5574:	L0376: 3, L0776: 3,	S0126: 3, H0689: 3,	.0740: 3, L0758: 3,	H0352:	T0002: 2, H0159: 2,	S0040: 2, H0713: 2,	H0716: 2, S0218: 2,	J0785: 2, H0661: 2,	H0638: 2, H0125: 2,	H0351:	H0586: 2, H0587: 2,	H0333: 2, H0492; 2,	.0623: 2, S0182: 2,
556: 4	587: 4,	67: 4, ]	286: 4, ]	752: 4, ]	505: 4, ]	585: 3,	305: 3,	58: 3, 9	722: 3,	522: 3, ]	109: 3,	67: 3,	138: 3, 9	520: 3,	770: 3,	766: 3, ]	376: 3, ]	26: 3, ]	740: 3, ]	542: 3,	02: 2,	40:2,1	716: 2,	785: 2, ]	538: 2,	S0410: 2, H0351:	586: 2,	333: 2,	523: 2,
HOH	ÖH	107	1.52	L07	<u> </u>	HO	HOH	S03	HO	3	<u>5</u>	700	S04	<u> </u>	<u> </u>	101	<u> 1</u> 03	S01	<u>1</u>	HOH	<u>T</u>	200	H H	<u>10</u>	)H	S04	70H	HO	1:06
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2, S004	2, H003	2, H055	2, S021	.0762: 2, L.0764: 2,	.5564: 2, L0653: 2,	.0655: 2, L0634: 2,	2, L0783: 2,	.0543: 2, L0368: 2,	2, H054	2, H068	2, H071	.0754: 2, L0747: 2,	J0750: 2, L0777:	2, L0590:	2, L0599:	.0608: 2, L0604: 2	.0362: 2, H0653: 2	2, H068	1, L076	1, S0212	1, H066	1, H045	1, L0534:	1, S0442:	l, S0049	1, S0476	1, H064	1, S027	1, H059
H0581: 2, S0049: 2,	H0083: 2, H0031: 2,	H0163: 2, H0551:	H0059: 2, S0210: 2,	.0762: 2	.5564: (	.0655: 2	.0526: 2, I	.0543: 2	H0691: 2, H0547:	H0690: 2, H0684: 2,	S0330: 2, H0710: 2,	.0754: 2	L0750: 3	L0755: 2, I	L0581: 2, I	.0608:	.0362: 2	H0721: 2, H0686:	S0430: 1, L0760:	S0116: 1, S0212:	H0484: 1, H0663:	H0306: 1, H0458:	H0459: 1, ]	L0005: 1,	S0376: 1, S0045:	S0132: 1, S0476:	H0393: 1, H0640:	H0411: 1, S0278: 1	H0455: 1, H0592:
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T0039: 1, T0060: 1,	H0706: 1, S0010: 1,	T0048: 1, H0318: 1,	H0309: 1, H0596: 1,	T0115: 1, L0040: 1,	H0231: 1, H0546: 1,	H0545: 1, H0009: 1,	H0057: 1, H0018: 1,	S0051: 1, H0510: 1,	H0375: 1, H0109: 1,	S0022: 1, H0328: 1,	H0688: 1, H0039: 1,	T0023: 1, T0006: 1,	H0424: 1, H0628: 1,	H0673: 1, H0708: 1,	S0366: 1, S0036: 1,	H0135: 1, H0040: 1,	H0634: 1, H0063: 1,	H0087: 1, H0116: 1,	H0264: 1, H0413: 1,	H0100: 1, L0564: 1,	H0494: 1, H0561: 1,		S0144: 1, S0344: 1,	L0506: 1, L0761: 1,	L0646: 1, L0771: 1,	L0648: 1, L0521: 1,	L0662: 1, L0387: 1,	L0375: 1, L0806: 1,	L0654: 1, L0661: 1,
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L0807: 1, L0542: 1, L0519: 1, L0530: 1.	L0790: 1, L0663: 1,	H0144: 1, H0724: 1,	H0660: 1, H0666: 1,	H0672: 1, H0518: 1,	H0521: 1, S0190: 1,	H0134: 1, H0187: 1,	H0436: 1, S3014: 1,	S0028: 1, L0751: 1,	L0779: 1, L0757: 1,	S0031: 1, H0445: 1,	S0436: 1, H0668: 1,	S0026: 1, S0276: 1 and	S0424: 1.	-				H0575: 2, L0002: 1,	S0336: 1, H0487: 1,	L0762: 1, L0637: 1,	L0805: 1, L0659: 1,	H0658: 1, L0777: 1 and	L0731: 1.		H0038: 5, H0616: 3,	L0752: 3, S0418: 2,	H0620: 2, H0547: 2,	L0602: 2, H0521: 2,
	•							•					:	Asn-60 to Gly-72,	Pro-83 to Trp-114,	Ser-117 to Arg-126.	Arg-1 to Gln-9.		·					Pro-3 to Pro-12.	Phe-1 to Cys-13,	Gly-28 to Ser-35.		
														4111	,		4112	4113						4114	4115			
														1 - 378			2 - 121	248 - 559						1-507	169 - 342		·	
														1936			1937	1938						1939	1940			
-		,												HPDWD81 HPDWD81R			HPDWEIIR	HPDWE64 HPDWE64R		•				HPDWF93R	HPDWG51 HPDWG51R			
														HPDWD81			HPDWE11	HPDWE64			٠			HPDWF93	HPDWG51			

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L0751: 2, S0212: 1, S0282: 1, H0638: 1, S0358: 1, S0007: 1, H0261: 1, H0575: 1, S0346: 1, H0596: 1, L0471: 1, L0163: 1, H0649: 1, H0599: 1, H0649: 1, S0144: 1, L0803: 1, S0144: 1, H0519: 1, S0144: 1, L0803: 1, L0744: 1, L0743: 1, L0744: 1, L0743: 1, L0744: 1, L0748: 1, L0748: 1, L0748: 1, L0748: 1, L0748: 1, L0748: 1, L0759: 1, L0599: 1 and S0424: 1.			H0556: 30, H0659: 9,	H0494: 7, S0360: 6,		S0206: 5, L0777: 5,	H0265: 4, H0657: 4, S0328: 4, S0152: 4	S0146: 4, L0748: 4,	L0751: 4, L0749: 4,	H0423: 4, S0040: 3,	H0497: 3, H0623: 3,
			Arg-21 to Gly-32,	Thr-92 to Pro-100,	Glu-107 to Glu-126,		Ser-148 to 1 nr-13 /.		-		
	4116	4117	4118								٠
	2 - 388	174 - 308	1 - 585		٠						
	1941	1942	1943								
	HPDWL56R	HPDWL70   HPDWL70R	HPDWN46 HPDWN46R								
	HPDWL56	HPDWL70	HPDWN46								

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H0529: 3, L0761: 3	.0665: 3, H0144: 3,	H0555: 3, S0026: 3,	H0656: 2, H0341: 2,	, S0418: 2,	S0356: 2, H0675: 2,	S0046: 2, H0411: 2,	H0586: 2, H0581: 2,	H0615: 2, H0553: 2,	H0591: 2, S0440: 2,	S0422: 2, L0772: 2,	.0438: 2, H0711: 2,	H0521: 2, S0404: 2,	S3014: 2, L0743: 2,	.0740: 2, H0170: 1	HO171: 1, H0159: 1	1, S0342: 1	10294: 1, S0114: 1,	l, S0116: 1	H0661: 1, H0458: 1,	, S0376: 1,	S0444: 1, H0437: 1	S6022: 1, H0550: 1	H0362: 1, H0642: 1	H0574: 1, H0559: 1	S0280: 1, H0590: 1	H0004: 1, H0363: 1	H0263: 1, H0596: 1	H0081: 1, H0014: 1	I, H0628: 1
H0529:	L0665: 3	H0555:	H0656: 2	S0212: 2	S0356: 2	S0046: 2	H0586: 2	H0615: 2	H0591: 2	S0422: 2	L0438: 2	H0521: 3	S3014: 2	L0740: 2	H0171:	H0686:	H0294:	T0049: 1	H0661:	S0420: 1	S0444: 1	S6022: 1	H0362:	H0574:	S0280: 1	H0004:	H0263:	H0081:	H0688: 1
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L0055: 1, H0673: 1, H0068: 1, L0435: 1, H0625: 1, S0002: 1, L0369: 1, L0637: 1, L0764: 1, L0774: 1, L0775: 1, L0375: 1, L0805: 1, L0806: 1, L0606: 1, L0657: 1, L0792: 1, H0701: 1, S0374: 1, H0519: 1, S0390: 1, S0037: 1, L0779: 1, L0747: 1, L0779: 1, L0747: 1, L0779: 1, L0747: 1, L0779: 1, L0731: 1, L0779: 1, L0731: 1, L0779: 1, L0731: 1, L0779: 1, L0731: 1, H0667: 1, S0194: 1, H0657: 1, S0194: 1, H0657: 1, and S0424: 1.			L0766: 5, H0551: 3, L0769: 3, L0639: 3, H0327: 2, S0002: 2, L0764: 2, L0659: 2,
		Gly-2 to Pro-9, Ser-24 to Thr-33.	
	4119	4120	4121
	1 - 246	2 - 607	351 - 704
	1944	1945	1946
	HPDWN65 HPDWN65R	HPDWN69 HPDWN69R	HPDWO08 HPDWO08R
	HPDWN65	HPDWN69	HPDWO08

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L0663: 2, L0777: 2, S0356: 1, S0360: 1, S0410: 1, L0717: 1, H0261: 1, H0550: 1, S0222: 1, T0109: 1, H0575: 1, T0048: 1, H0052: 1, S0051: 1, L0455: 1, H0124: 1, H0135: 1, H0063: 1, L0770: 1, L0763: 1, L0770: 1, L076: 1, L0542: 1, L0635: 1, L0542: 1, L0565: 1, H0547: 1, H0658: 1, H0547: 1, H0658: 1, H0522: 1, L0756: 1,				L0770: 12, H0657: 10, H0659: 9, L0776: 8, H0648: 8, L0755: 8, L0774: 7, S0410: 6, H0494: 6, L0769: 6, L0750: 6, S0408: 5, S0440: 5, L0775: 5,
	His-1 to Gly-13.	Arg-90 to Lys-95, Pro-121 to Trp-129.		Ala-3 to Glu-8.
	4122	4123	4124	4125
	386 - 568	27 - 455	2 - 358	1 - 342
·	1947	1948	1949	1950
	HPDWO29 HPDWO29R	HPDWO50 HPDWO50R	HPDWO61 HPDWO61R	HPDWO82 HPDWO82R
	HPDW029	HPDWO50	HPDW061	HPDWO82

S0376. 4 S0360. 4	L0748: 4, L0777: 4,	L0752: 4, L0759: 4,	H0341: 3, S0358: 3,	H0616: 3, L0766: 3,	L0740: 3, L0747: 3,	L0731: 3, L0758: 3,	S0026: 3, H0170: 2,	H0556: 2, H0685: 2,	H0656: 2, S0420: 2,	S0444: 2, T0109: 2,	H0156: 2, H0545: 2,	L0471: 2, H0031: 2,	H0040: 2, H0560: 2,	L0065: 2, S0438: 2,	L0763: 2, L0772: 2,	L0764: 2, L0518: 2,	L0783: 2, H0144: 2,	S0374: 2, H0520: 2,	H0658: 2, H0670: 2,	L0753: 2, H0445: 2,	S0434: 2, H0665: 2,	S0194: 2, S0134: 1,	S0116: 1, H0663: 1,	L0481: 1, H0638: 1,	H0125: 1, S0442: 1,	H0351: 1, H0369: 1,	H0550: 1, H0431: 1,	H0331: 1, H0069: 1,	S0346: 1, T0048: 1,
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													-				-											Asp-15 to Val-20.	
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.9090F	H0696:	10295:	H0150:	H0163:	30408: 3	.0623:	70006:		L0764:	.0776:	.0510:	L0512:	L0783: 2,	.0528:	H0694:	.0747:	36024:	H0381:	H0664:	S0356:	30358:	H0411:	H0586:	H0036:	H0309:	H0121:	H0014:	30051:	H0622:
L0758: 5, H0606: 4,	H0658: 4, H0696: 4,	S0276: 4, H0295: 3,	S0280: 3, H0150: 3,	H0188: 3, H0163:	.0769: 3, S0408: 2,	.0622: 2, L0623: 2,	10060: 2, T0006: 2,	H0181: 2, H0673	H0494: 2, L0764: 2,	.0775: 2, L0776: 2,	.0514: 2, L0510:	.0511: 2, I	.0540: 2, I	.0809: 2, L0528: 2,	H0683: 2, H0694: 2,	J0744: 2, L0747: 2	S0031: 2, S6024:	H0294: 1, H0381:	H0483: 1, H0664: 1	H0662: 1, S0356:	42: 1, §	S0376: 1, I	S6022: 1, I	H0333: 1, H0036:	H0590: 1, H0309:	H0044: 1, H0121:	H0081: 1, H0014:	S0388: 1, S0051: 1	H0252: 1, H0622
1.07	90H	S02	S02	H01	107	700	<u>100</u>	H01	H04	107	105	105	105	<u> 108</u>	H06	<u>107</u>	800	H02	HOH	HOG	S04	S03	<u>S</u>	H03	H05	HOOH	HOC	S03	H02
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L0483: 1, H0033: 1, H0111: 1, H0032: 1, H0166: 1, S0438: 1,	L0762: 1, L0304: 1, L0381: 1, L0803: 1, L0375: 1, L0376: 1, L0509: 1, L0515: 1, L0518: 1, L0782: 1, L0544: 1, L0541: 1,	50126: 1, H0651: 1, 50126: 1, H0651: 1, L0743: 1, L0751: 1, L0777: 1, L0753: 1, H0445: 1, H0667: 1, S0194: 1 and S0398: 1.	L0774: 3, H0658: 3, L0803: 2, L0439: 2, H0619: 1, H0586:-1, H0309: 1, S0366: 1, L0659: 1 and S0052: 1.		L0748: 18, L0755: 7, H0251: 6, L0777: 6, H0658: 4, L0754: 4, L0779: 4, S0360: 3, S0276: 3, H0674: 2, L0767: 2, L0766: 2,
			Ala-37 to Ser-42, Gly-127 to Thr-134.	Arg-4 to Gly-17, Pro-39 to Lys-46, His-96 to Arg-102.	Leu-4 to Phe-9, Gly-29 to Glu-39.
			4127	4128	4130
			3 - 503	12 - 746	1 - 702
			1952	1953	1955
			HPDWT55R	HPDWT56R	HPDWU47 HPDWU47R HPDWU55 HPDWU55R
			HPDWT55	HPDWT56	HPDWU47 HPDWU55

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L0775: 2, L0809: 2, H0689: 2, L0757: 2, S0358: 1, S0046: 1, H0013: 1, H0427: 1, H0546: 1, H0046: 1, H0123: 1, H0252: 1, H0031: 1, H0617: 1, L0769: 1, L0773: 1,	L0774: 1, L0375: 1, L0776: 1, L0636: 1, L0783: 1, L0382: 1, L0666: 1, L0663: 1,	L0665: 1, H0144: 1, H0670: 1, S0328: 1, H0696: 1, S0027: 1, L0758: 1, L0759: 1 and S0434: 1.	L0766: 7, L0748: 6, L0771: 5, S0422: 3, H0519: 3, L0749: 3, L0756: 3, H0735: 2,	H0641: 2, H0529: 2, L0659: 2, S0374: 2, L0758: 2, H0484: 1, S0442: 1, S0358: 1, S0410: 1, S0007: 1,	H0652: 1, L0483: 1, H0606: 1, H0268: 1, S0150: 1, L0763: 1,
			Pro-50 to Trp-55.		
	, , , , , , , , , , , , , , , , , , , ,		4131		
			2 - 568		
			1956		
			HPDWU60 HPDWU60R		
			HPDWU60		

L0637: 1, L0764: 1, L0768: 1, L0774: 1, L0653: 1, L0809: 1, L0666: 1, H0144: 1, L0438: 1, H0520: 1, H0547: 1, H0658: 1, S0328: 1, H0539: 1, S0406: 1, S0027: 1, L0744: 1, L0751: 1, L0774: 1, L0750: 1, L0777: 1, L0592: 1, L0608: 1, L0593: 1,		L0740: 3, L0758: 3, S0242: 3, L0598: 2, L0766: 2, L0803: 2, H0435: 2, H0648: 2, L0748: 2, L0756: 2, L0731: 2, L0757: 2, H0170: 1, S0300: 1, H0687: 1, H0046: 1, H0674: 1, H0616: 1, T0067: 1, UNKWN: 1, L0770: 1, L0637: 1, L0770: 1, L0637: 1, L0770: 1, L0637: 1,
	Ala-51 to Tyr-56, Ala-92 to Ser-101, Ser-118 to Ile-123.	Asp-14 to Ala-19.
·	4132	4133
	2 - 370	38 - 163
ŕ	1957	1958
	HPDWU63R	HPFMP90R
	HPDWU63	HPFMP90

L0775: 1, L0784: 1, L0805: 1, L0776: 1, L0666: 1, L0664: 1, L0665: 1, L0438: 1, H0689: 1, L0439: 1, L0754: 1, L0750: 1, L0759: 1 and L0480: 1.			H0255: 2, S0114: 1, L0510: 1 and S0216: 1.			L0809: 5, L0666: 4,	L0747: 3, L0750: 3,	L0764: 2, L0803: 2,	L0774: 2, L0651: 2,	L0663: 2, L0664: 2,		L0779: 2, L0755: 2,	H0669: 1, H0392: 1,	H0600: 1, S0346: 1,	H0494: 1, H0646: 1,	L0763: 1, L0371: 1,	L0372: 1, L0775: 1,	L0659: 1, L0518: 1,	L0788: 1, L0665: 1,	S0330: 1, S0392: 1,
	Phe-5 to Leu-11, Ser-20 to Arg-45.	Gly-4 to Asn-9.	Pro-11 to Lys-16, Val-18 to Arg-45, Asn-56 to Glu-67															-		
	4134	4135	4136	4137	4138	4139														
	209 - 394	3 - 182	2 - 364	2-655	114 - 212	239 - 412					,				•					
	1959	1960	1961	1962	1963	1964														
	HPIAL09R	HSAMY44   HSAMY44R	HSAYW59 HSAYW59R	HSCP117R	HSDÍA22R	HSDII65R														
	HPIAL09	HSAMY44	HSAYW59	HSCPJ17	HSDIA22	HSDII65														

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L0749: 1, L0752: 1,	L0757: 1. S0260: 1.	L0596: 1, L0591: 1 and	L0608: 1.				AR096: 3, AR060: 3,	AR061: 2, AR053: 2,		AR052: 0	L0774: 3, L0752: 3,	L0592: 3, H0625: 2,	L0662: 2, L0747: 2,	L0777: 2, H0580: 1,	L0717: 1, H0455: 1,	S0280: 1, H0251: 1,	H0633: 1, L0773: 1,	L0768: 1, L0794: 1,	L0803: 1, L0775: 1,	L0653: 1, L0776: 1,	L0661: 1, L0659: 1,	L0526: 1, L0809: 1,	L0665: 1, H0658: 1,	H0696: 1, L0755: 1,	L0731: 1, L0757: 1,	L0759: 1 and H0352: 1.			
					Ser-20 to Ser-31.	Trp-1 to Ala-10.									``									-			Lys-18 to Lys-30.	Pro-14 to Lys-26.	Leu-117 to Trp-123.
				4140	4141	4142																					4143	4144	4145
				2 - 187	2 - 169	40 - 141							,												,		40 - 180	3 - 80	2 - 400
				1965	1966	1967									-												1968	1969	1970
				HSDIX73R	HSDJI25R	HSDZE12R																					HSDZJ21R	HSIFF84R	HSKJR50R
				HSDIX73	HSDJI25	HSDZE12													·								HSDZJ21	HSIFF84	HSKJR50

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	H0596; 5, S0388; 4, H0598; 4, H0595; 4,	S0412: 4, S0282: 3,	S0280: 2, H0594: 2,	H0366: 2, H0542: 2,	H0395: 1, H0589: 1,	S0356: 1, H0411: 1,	H0592: 1, H0559: 1,	H0427: 1, S0050: 1,	H0373: 1, S0344: 1,	H0436: 1, S0260: 1,	S0194: 1 and H0506: 1.													L0755: 5, L0748: 4,	H0616: 3, L0769: 3,	L0752: 3, L0731: 3,	L0757: 3, S0356: 2,	S0408: 2, S0046: 2,
4146 Asn-45 to Ser-54.											:	Glu-77 to Arg-82,	Pro-132 to Met-139.	Ile-1 to Ala-11,	Asp-67 to Leu-78,	Asn-81 to Ser-90,	Pro-96 to Glu-110,	Ala-164 to Ala-171,	Gln-173 to Lys-179.	Ala-1 to Cys-21,	Trp-23 to Ser-33.		Leu-43 to Thr-58.	Ser-41 to Ile-50,	Gln-55 to Glu-65,	Cys-69 to Asp-78.	• •	
4146	4147											4148	!	4149						4150		4151	4152	4153				
2-196	1 - 174									•	-	1-612		3 - 539					•	1 - 162		2 - 631	1 - 342	3 - 293				
1971	1972		.:									1973		1974						1975		9261	1977	1978				
HSLHT27R	HSODB16R		,									HSPSB24R		HSPSB70R						HSPSB74R		HSPSB80R	HSPSC30R	HSPSE86R				
HSLHT27	HSODB16											HSPSB24		HSPSB70						HSPSB74		HSPSB80	HSPSC30	HSPSE86				

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.0770: 2, L0771: 2,	.0776: 2, L0526: 2,	.0747: 2, L0750: 2,	.0756: 2, L0758: 2,	.0759: 2, L0588: 2,	H0170: 1, L0459: 1,	H0484: 1, S0358: 1,	S0360: 1, H0637: 1,	: 1, S0132: 1,	H0393: 1, S0278: 1,	70039: 1, H0427: 1,	: 1, S0049: 1,	H0009: 1, H0081: 1,	[0003: 1, H0051: 1,	H0083: 1, S0003: 1,	: 1, H0708: 1,	: 1, H0038: 1,	H0063: 1, H0412: 1,	: 1, S0150: 1,	H0529: 1, L0762: 1,	: 1, L0646: 1,	: 1, L0768: 1,	: 1, L0774: 1,	: 1, L0661: 1,	: 1, L0782: 1,	: 1, L0666: 1,	.0665: 1, H0683: 1,	H0660: 1, S0378: 1,	S0406: 1, L0777: 1,	: 1 and H0542: 1.
L0770	T0776	L0747	L0756	L0759	H0170	H0484	S0360	S0045	H0393	T0039	H0318:	H0009	T0003	H0083	H0622: 1	H0316: 1	H0063	S0038:	H0529	L0763: 1	L0644: 1,	L0766: 1	L0775: 1,	L0657: 1	L0788:	10665	0990H	S0406	H0445: 1
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H0124: 19, H0052: 10,	L0751: 7, L0747: 7,	H0255: 6, H0441: 6,	H0556: 5, S0222: 5,	H0265: 4, S0360: 4,	H0620: 4, L0655: 4,	H0144: 4, L0439: 4,	L0596: 4, L0601: 4,	S0132: 3, H0575: 3,	H0123: 3, H0012: 3,	H0024: 3, H0617: 3,	H0087: 3, H0529: 3,	L0764: 3, L0662: 3,	L0766: 3, L0663: 3,	L0565: 3, L0438: 3,	H0660: 3, L0743: 3,	L0740: 3, H0445: 3,	H0218: 2, H0585: 2,	S0418: 2, S0444: 2,	S0408: 2, H0208: 2,	S0278: 2, H0261: 2,	H0333: 2, H0706: 2,	H0581: 2, S0049: 2,	H0009: 2, L0471: 2,	S0051: 2, T0010: 2,	H0083: 2, H0594: 2,	T0006: 2, H0628: 2,	H0038: 2, S0440: 2,	S0142: 2, S0344: 2,	L5565: 2, L5566: 2,
4154   Leu-41 to Asp-48.		_				,																							
4154				,																•									
3 - 191													-																
1979			•																									,	
HSPSG03   HSPSG03R							ŀ		-	-			•						•										
HSPSG03																	_												

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657: 2.	666: 2,	683: 2,	670: 2,	748: 2,	752: 2,	731: 2,	587: 2,	624: 1,	141: 1,	402: 1,	114: 1,	341: 1,	282: 1,	007: 1,	476: 1,	300: 1,	l, H0411: 1,	574: 1,	622: 1,	244: 1,	156: 1,	048: 1,	309: 1,	)231: 1,	, H0546: 1,	150: 1,	050: 1,	373: 1,	, H0071: 1,
.0776: 2, L0657: 2,	.0659: 2, L0666: 2,	.0665: 2, H0683: 2,	H0658: 2, H0670: 2,	S0146: 2, L0748: 2,	.0756: 2, L0752: 2,	L0755: 2, L0731: 2,	0758: 2, L0	0361: 2, HC	0002: 1, HC	H0717: 1, S0402: 1,	0295: 1, SC	0785: 1, HC	\$0212: 1, \$0282:	H0722: 1, S0007: 1	0046: 1, SO	H0619: 1, S0300:	H0351: 1, H0	H0392: 1, H0574:	H0492: 1, L0622:	L0623: 1, H0244: 1	0250: 1, H(	H0618: 1, T0048:	H0434: 1, H0309:	H0597: 1, H0231:	H0544: 1, H(	H0046: 1, H0150:	H0050: 1, S0050:	H0016: 1, H0373:	H0051: 1, H(
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S6028: 1, H0271: 1,	H0687: 1, S0022: 1,	H0252: 1, H0615: 1,	•	H0604: 1, H0424: 1,	H0213: 1, L0055: 1,	H0674: 1, H0068: 1,	H0135: 1, H0040: 1,	H0551: 1, H0412: 1,	H0059: 1, H0100: 1,	.0351: 1, L0435: 1,	H0494: 1, S0306: 1,	S0150: 1, H0647: 1,	S0210: 1, S0002: 1,	L0369: 1, L0762: 1,	.0640: 1, L0371: 1,	J0770: 1, L0769: 1,	J0638: 1, L0637: 1,	•	•	.0374: 1, L0648: 1,	L0767: 1, L0768: 1,	•	.0493: 1, L0559: 1,	.0635: 1, L0783: 1,		•	L0788: 1, L4559: 1,	S0053: 1, L0352: 1,	H0520: 1, H0547: 1,
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H0690: 1, H0682: 1, H0435: 1, H0539: 1, H0521: 1, S0404: 1, S3012: 1, S0037: 1, S3014: 1, S0028: 1, S0206: 1, L0742: 1, L0750: 1, L0779: 1, L0753: 1, L0757: 1, L0593: 1, S0276: 1, H0423: 1, H0506: 1, H0008: 1 and H0293: 1.									•	•							
		Glu-6 to Thr-11,	His-31 to Asn-36,	Thr-68 to Ile-76,	Met-80 to Arg-89,	Glu-123 to Gln-132,	Arg-140 to Leu-147.	Glu-1 to Ile-6.	Pro-36 to Lys-44,	Ile-46 to Ser-52,	Val-82 to Gln-89,	Gly-99 to Ala-104,	Tyr-165 to Leu-171.				Asp-7 to Lys-15, His-142 to Glu-156,
	4155	4156						4157	4158					4159	4160	4161	4162
·	2 - 784	3 - 596						123 - 608	94 - 651					11 - 793	3 - 431	3 - 539	3 - 734
	1980	1981						1982	1983					1984	1985	1986	1987
	HSPSG13R	HSPSG42R	-				-	HSPSG50R	HSPSG89R					HSPSH39R	HSPSH41R	HSPSH49R	HSPSI65R
	HSPSG13	HSPSG42						HSPSG50	HSPSG89					HSPSH39	HSPSH41	HSPSH49	HSPSI65

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	H0124: 19, H0052: 10,	LO/51: 7, L0/4/: 7, H0255: 6. H0441: 6.	H0556: 5, S0222: 5,	H0265: 4, S0360: 4,	H0620: 4, L0655: 4,	H0144: 4, L0439: 4,	L0596: 4, L0601: 4,	S0132: 3, H0575: 3,	H0123: 3, H0012: 3,	H0024: 3, H0617: 3,	H0087: 3, H0529: 3,	L0764: 3, L0662: 3,	L0766: 3, L0663: 3,	L0565: 3, L0438: 3,	H0660: 3, L0743: 3,	L0740: 3, H0445: 3,	H0218: 2, H0585: 2,	S0418: 2, S0444: 2,	S0408: 2, H0208: 2,	S0278: 2, H0261: 2,	H0333: 2, H0706: 2,	H0581: 2, S0049: 2,	H0009: 2, L0471: 2,	S0051: 2, T0010: 2,	H0083: 2, H0594: 2,	T0006: 2, H0628: 2,	H0038: 2, S0440: 2,	S0142: 2, S0344: 2,
Glu-181 to Phe-190.												٠	,				·											
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	2-310														•		-									•		.:
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.5565; 2. L5566; 2.	.0776: 2. L0657: 2.	.0659: 2, L0666: 2,	.0665: 2, H0683: 2,	H0658: 2, H0670: 2,	S0146: 2, L0748: 2,	.0756: 2, L0752: 2,	.0755: 2, L0731: 2,	.0758: 2, L0587: 2,	.0361: 2, H0624: 1,	[0002: 1, H0141: 1,	H0717: 1, S0402: 1,	295: 1, S0114: 1,	785: 1, H0341: 1,	S0212: 1, S0282: 1,	722: 1, S0007: 1,	S0046: 1, S0476: 1,	H0619: 1, S0300: 1,	H0351: 1, H0411: 1,	H0392: 1, H0574: 1,	H0492: 1, L0622: 1,	523: 1, H0244: 1,	H0250: 1, H0156: 1,	H0618: 1, T0048: 1,	H0434: 1, H0309: 1,	H0597: 1, H0231: 1,	H0544: 1, H0546: 1,	H0046: 1, H0150: 1,	H0050: 1, S0050: 1,	H0016: 1, H0373: 1,
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H0520: 1, H0547: 1, H0690: 1, H0682: 1, H0435: 1, H0539: 1, H0521: 1, S0404: 1, S3012: 1, S0028: 1, S3014: 1, S0028: 1, S0206: 1, L0742: 1, L0750: 1, L0779: 1, L0753: 1, L075: 1, L0593: 1, S0276: 1, H0423: 1, H0506: 1,	H0617: 14, L0665: 14, L0657: 11, H0682: 11, H0521: 10, S0360: 8, H0423: 7, H0657: 5, H0620: 5, H0687: 5, L0664: 5, H0547: 5, S0406: 5, S0376: 4, H0658: 4, H0658: 4, H0658: 4, H0666: 4, H0666: 4, H0666: 4, H0639: 3, H0713: 3, H0716: 3, H0341: 3, H0639: 3, H0662: 3, L0775: 3, L0662: 3, H0689: 3, H
H0520: 1 H0690: 1 H0521: 1 S3012: 1 S3014: 1 S0206: 1 L0750: 1 L0593: 1 H0423: 1 H0608: 1	H065 10657 H0628 H0628 S0406 S0406 H0057 H057 H067 H008 H008 H008 H008
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H0435: 3, S0328: 3,	H0445: 3, S0434: 3,	L0581: 3, L0361: 3,	H0585: 2, H0717: 2,	T0049: 2, H0730: 2,	S0476: 2, S0278: 2,	H0550: 2, H0586: 2,	H0559: 2, H0486: 2,	H0575: 2, H0253: 2,	H0581: 2, H0622: 2,	H0606: 2, H0625: 2,	H0649: 2, L0667: 2,	L0382: 2, H0684: 2,	L0743: 2, L0751: 2,	L0599: 2, S0026: 2,	H0543: 2, S0424: 2,	H0171: 1, H0556: 1,	S0040: 1, H0740: 1,	H0650: 1, H0254: 1,	H0255: 1, H0661: 1,	H0663: 1, H0664: 1,	H0125: 1, S0356: 1,	S0442: 1, S0354: 1,	S0358: 1, S0408: 1,	H0722: 1, S0132: 1,	S6026: 1, H0587: 1,	L0623: 1, H0250: 1,	L0021: 1, H0599: 1,	T0082: 1, H0318: 1,	H0327: 1, H0530: 1,
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H0150: 1, L0471: 1,	H0012: 1, H0023: 1,	H0024: 1, H0014: 1,	S0388: 1, H0071: 1,	H0107: 1, H0275: 1,	H0354: 1, H0510: 1,	H0247: 1, H0271: 1,	H0286: 1, H0615: 1,	H0688: 1, H0553: 1,	H0181: 1, H0124: 1,	H0316: 1, H0477: 1,	H0100: 1, H0561: 1,	S0450: 1, S0438: 1,	H0529: 1, L0371: 1,	L0769: 1, L5575: 1,	L0761: 1, L0772: 1,	L0646: 1, L0645: 1,	L0766: 1, L0774: 1,	L0375: 1, L0651: 1,	L0523: 1, L0806: 1,	L0658: 1, L0559: 1,	L0783: 1, L0384: 1,	L0793: 1, H0698: 1,	H0726: 1, H0519: 1,	H0683: 1, H0660: 1,	S0330: 1, S0454: 1,	H0696: 1, S0146: 1,	H0576: 1, H0727: 1,	H0732: 1, S0027: 1,	S0031: 1, L0596: 1,
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H0542: 1, H0422: 1,	S0456: 1 and H0352: 1.	•	-			H0683: 242, S0358: 3,	L0745: 3, H0656: 2,	H0484: 2, S0354: 2,	H0370: 2, H0427: 2,	T0010: 2, H0039: 2,	H0521: 2, S0001: 1,	H0619: 1, H0592: 1,	H0042: 1, H0618: 1,	H0327: 1, H0024: 1,	H0266: 1, H0288: 1,	H0135: 1, H0551: 1,	H0623: 1, H0130: 1,	S0210: 1, L0774: 1,	L0654: 1, L0438: 1,	H0593: 1, H0539: 1,	L0439: 1, H0707: 1,	H0422: 1 and H0293: 1.						
		Pro-6 to Gly-13,	Pro-23 to Lys-32,	Lys-94 to Ala-112.	Glu-17 to Asp-32.				-										-						Ala-1 to Lys-9,	Val-11 to Trp-17.		Ser-1 to Thr-8,
		4165			4166	4167																	4168	4169	4170		4171	4172
		1 - 339			1 - 327	2 - 442																	2 - 406	244 - 438	2-61		46 - 210	36 - 302
		1990			1991	1992																	1993	1994	1995		1996	1997
		HSPSQ22R	,		HSPSQ57R	HSPSY67R														•			HSPSZ69R	HSPTA57R	HSPTN57R		HSSDM17R	HSWBF04R
		HSPSQ22			HSPSQ57	HSPSY67		P															69ZSASH	HSPTA57	HSPTN57		HSSDM17	HSWBF04

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			L0803: 10, L0794: 4,	L0779: 4, L0789: 2,	H0648: 2, S0442: 1,	S0045: 1, S0036: 1,	L0520: 1, L0763: 1,	L0769: 1, L0800: 1,	L0644: 1, L0764: 1,	L0773: 1, L0767: 1,	L0804: 1, L0774: 1,	H0659: 1, L0777: 1 and	L0758: 1.	H0615: 2 and S0134: 1.								L0439: 15, H0052: 11,	S0007: 9, L0438: 6,	L0731: 6, L0779: 5,	L0754: 4, H0550: 3,	L0769: 3, S0126: 3,
Glu-17 to Ala-32, Arg-39 to Trn-47	Met-9 to Arg-14,	Leu-23 to Lys-29, Lys-50 to Asn-56.	Ser-7 to Gly-12,	Pro-23 to Pro-40,	Ala-49 to Val-54.		•			,				Ser-4 to Thr-10,	Leu-42 to Pro-51.	Asp-55 to Val-63,	Cys-80 to Arg-92.		Pro-8 to Trp-14,	Arg-20 to Ser-27,	Glu-52 to Glu-60.	Pro-26 to Gly-39,	Pro-68 to Arg-75.			
	4173		4174			•								4175		4176		4177	4178			4179				
	188 - 364	•	84 - 308								•			136 - 297		131 - 406		107 - 295	169 - 423			94 - 366				
	1998		1999											2000		2001		2002	2003			2004				
	HSWBP42R		HSXEM65R											HTGAR42R		HTLCU84R		HTSHG06R	HTTDP76R			HUFCQ37R	- <del></del>			
	HSWBP42		HSXEM65											HTGAR42		HTLCU84		HTSHG06	HTTDP76			HUFCQ37				

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.0743: 3, H0194: 2,	H0687: 2, H0623: 2,	.0768: 2, L0776: 2,	659: 2, L0666: 2,	.0663: 2, H0689: 2,	30330: 2, L0748: 2,	.0786: 2, L0777: 2,	.0752: 2, L0758: 2,	608: 2, H0352: 2,	H0662: 1, S0356: 1,	354: 1, S0444: 1,	045: 1, S0476: 1,	H0441: 1, H0431: 1,	333: 1, H0642: 1,	575: 1, H0590: 1,	70048: 1, H0150: 1,	H0024: 1, S0050: 1,	388: 1, H0252: 1,	H0039: 1, H0135: 1,	H0038: 1, H0264: 1,	H0494: 1, L0770: 1,	.0372: 1, L0646: 1,	.0521: 1, L0794: 1,	L0803: 1, L0775: 1,	.0653: 1, L0657: 1,	809: 1, L0792: 1,	.0664: 1, H0144: 1,	L0352: 1, H0519: 1,	H0593: 1, H0658: 1,	H0672: 1, H0539: 1,
07]	H	<u> </u>	<u>01</u>	<u> </u>	08	07	<u>21</u>	07	H	os S	S	H	H	H	OTT.	H	<u> </u>	H	H	H	<u>21</u>	<u>01</u>	<u> </u>	21	<u>11</u>	<u>31</u>	27	H	H(
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S0406: 1, L0751: 1,	L0749: 1, L0756: 1,	L0753: 1 and H0506: 1.					-								-	-				٠								
			Arg-8 to Arg-28.	Arg-11 to Arg-18,	Ser-42 to Arg-52,	Met-62 to Pro-73,	Pro-102 to Gly-115.			Aro-2 to Glv-12	A 50 4. 01. 41	Arg-28 to Gly-41,	Gly-48 to Val-68,	Lys-94 to Arg-118.	Met-4 to Thr-22,	Asp-45 to Gly-50,	Gly-65 to Asp-70,	Lys-96 to Asp-104,	Ile-121 to Leu-126,	Met-133 to Glu-144,	Ala-149 to Asn-156.	Ile-36 to Glu-41,	Glu-55 to Lys-63,	Lys-68 to Gln-81,	Pro-84 to Lys-90,	Pro-108 to Ser-119.	Pro-22 to Pro-28,	Glu-109 to Arg-118.
	_		4180	4181	•			4182	4183	4184	2				4185		_				•	4186					4187	
	_		2 - 349	19 - 390				187 - 288	351 - 620	1 - 462	701				94 - 618							208 - 717					2-373	
			2005	2006				2007	2008	9006	) )				2010							2011					2012	
			HULAP70R	HUSGA11 HUSGA11R			•	HUSIL88R	HUUCHO8 HUUCHO8R	HIIVEA 39 HI WEA 39R	VICCITI OII				HVCAA31 HVCAA31R	-						HVCAA37 HVCAA37R					HVCAA68 HVCAA68R	
			HULAP70	HUSGA11				HUSIL88	нопснов	HI IVEA 39	COLLOIT				HVCAA31							HVCAA37				,	HVCAA68	

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	H0666: 696, H0660:	11, L0666: 7, H0617: 4,	L0664: 4, H0549: 3,	H0620: 3, H0181: 3,	H0593: 3, H0684: 3,	H0484: 2, H0619: 2,	H0051: 2, H0606: 2,	H0670: 2, L0748: 2,	L0439: 2, S0040: 1,	H0483: 1, H0255: 1,	H0662: 1, S0007: 1,	H0486: 1, H0052: 1,	H0597: 1, H0046: 1,	H0009: 1, H0012: 1,	H0059: 1, T0041: 1,	H0517: 1, L0770: 1,	L0764: 1, L0803: 1,	L0783: 1, L0809: 1,	H0435: 1, H0658: 1,	H0539: 1, H0521: 1,	H0696: 1 and S0434: 1.		•		,		L0769: 7, L0747: 7,	L0777: 7, L0752: 7,	L0665: 6, L0770: 5,
							-												:			Arg-1 to Gln-18,	Asp-52 to Leu-57,	Asp-67 to Lys-74,	Asp-85 to Ala-92.				·
4188	4189											:										4190			•	4191	4192		
1 - 462	2 - 649	· ·													,							353 - 664				3 - 758	3 - 224		٠.
2013	2014			٠											_	ą						2015				2016	2017		
	HVCAB02R			-																		HVCAB03R				HVCAB18R	HVCAB44 HVCAB44R		,
HVCAA94	HVCAB02			•																		HVCAB03				HVCAB18	HVCAB44		

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L0766: 5, L0779: 5,	L0771: 4. L0666: 4.	L0439: 4, L0751: 4,	H0052: 3, H0135: 3,	L0762: 3, L0775: 3,	L0806: 3, L0809: 3,	L0647: 3, S0404: 3,	L0743: 3, L0749: 3,	L0731: 3, S0360: 2,	H0083: 2, H0412: 2,	L0662: 2, L0653: 2,	L0783: 2, L0532: 2,	L0664: 2, L0748: 2,	L0750: 2, L0758: 2,	L0759: 2, H0543: 2,	H0265: 1, S0218: 1,	H0657: 1, H0254: 1,	H0661: 1, H0402: 1,	S0354: 1, S0046: 1,	H0619: 1, S6026: 1,	L0717: 1, H0409: 1,	H0587: 1, H0486: 1,	H0013: 1, H0069: 1,	H0156: 1, H0599: 1,	L0022: 1, H0575: 1,	H0597: 1, H0544: 1,	H0546: 1, H0150: 1,	H0057: 1, H0014: 1,	S0003: 1, H0252: 1,
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H0615: 1, H0030: 1, H0644: 1, H0617: 1, S0364: 1, H0316: 1, H0598: 1, S0036: 1,	H0063: 1, H0646: 1, S0426: 1, L0369: 1, L0772: 1, L0773: 1,	L0767: 1, L0774: 1, L0375: 1, L0378: 1, L0655: 1, L0656: 1,	L0790: 1, L0663: 1, H0520: 1, H0689: 1,	H0670: 1, H0660: 1,	H0666: 1, S0152: 1,	H0521: 1, H0436: 1,	S0206: 1, L0744: 1,	L0786: 1, L0755: 1,	L0587: 1, L0362: 1,	H0422: 1, S0456: 1 and	L0600: 1.										
						-								Lys-6 to Thr-11,	Gly-22 to Phe-30,	Leu-40 to Gly-53,	Arg-56 to Lys-64,	Lys-93 to Leu-101,	Met-176 to Leu-181.	Arg-7 to Asp-13.	
												4193	4194	4195	,					4196	4197
	:									,		4 - 612	1-357	83 - 739						319 - 417	1 - 369
												2018	2019	2020						2021	
	·				٠							HVCAB52R	HVCAB57R	HVCAB88R						HVCAC42R	HVCAD52R
·												HVCAB52	HVCAB57	HVCAB88						HVCAC42	HVCAD52

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	·					S0358: 7, H0659: 7,	H0542: 7, H0543: 6,	L0666: 5, L0747: 5,	S0418: 4, H0494: 4,	L0657: 4, L0517: 4,	S0374: 4, L0731: 4,	L0596: 4, H0341: 3,	H0385: 3, S0346: 3,	H0553: 3, S0144: 3,	S0210: 3, L0764: 3,	L0659: 3, L0663: 3,	L0664: 3, H0521: 3,	L0754: 3, L0779: 3,	L0752: 3, L0755: 3,	H0445: 3, H0422: 3,	T0049: 2, S0116: 2,	S0212: 2, S0282: 2,	S0376: 2, S0360: 2,	S0045: 2, H0486: 2,	H0250: 2, H0427: 2,	H0581: 2, H0251: 2,
Tyr-44 to Asp-49, Pro-132 to Leu-139, Cys-168 to His-174.	Pro-49 to Val-58, Gln-60 to Gln-78,	Arg-85 to His-99,	Phe-122 to Asp-128,	Arg-157 to Arg-163,	Leu-178 to Thr-193.	Gly-19 to Ala-24,	Asn-32 to Val-38.						-									-				
4198	4199					4200																				
49 - 663	3 - 605					2 - 493			•															٠		
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2. H008	11041	2, FIO41	i, 1.0769	2, L064	.0651: 2, H0144: 2,	2, H066	, L074	.0608: 2, L0603:	2, H066	, H026	70002: 1, S0402:	l, H065	1, H066	1, H058	1, S004	.0717: 1, S0278: 1	1, H058	1, H057	l, H015	1, H059	1, S0049: 1	•	H0123: 1, L0471:	1, H037	.0163: 1, S0388: 1	1, H037	l, H026	1, S031	l, S000	1, H059
H0545: 2, H0083: 2	10610	HU310: 2, HU412: 4,	30422: 2	L0637: 2, L0646: 2,	.0651: 2	H0519: 2, H0660: 2,	30380: 2, L0740: 2,	.0608: 2	H0668: 2, H0667: 2,	S0412: 2, H0265:	[0002: ]	36024: 1, H0657:	H0656:	H0638: 1, H0580:	H0208: 1, S0046:	.0717:	H0370:	H0497: 1, H0574: 1	r0109: 1	H0575: 1, H0590: 1	H0318: 1	H0544: 1	H0123:	H0024: 1, H0373:	.0163:	H0355: 1, H0375:	S6028: 1, H0267:	H0687: 1, S0312:	S0250: 1, S0003: 1	H0316: 1, H0598:
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																					-			Asn-20 to Gln-27.	Arg-92 to Arg-101,	Lys-134 to Asn-140,	Ser-149 to Thr-159,	Gly-166 to Ile-175.
																								4201	4202			
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	H0620: 16, L0747: 12,	H0599: 11, L0758: 9,	S0358: 8, L0751: 7,	L0754: 7, L0596: 7,	H0556: 6, H0393: 5,	H0706: 5, H0052: 5,	H0616: 5, H0529: 5,	L0774: 5, L0776: 5,	H0483: 4, S0442: 4,	H0253: 4, H0012: 4,	H0083: 4, S0150: 4,	L0662: 4, H0670: 4,	H0521: 4, L0748: 4,	L0581: 4, H0543: 4,	H0341: 3, S0376: 3,	H0580: 3, S0007: 3,	S0280: 3, H0036: 3,	H0618: 3, H0581: 3,	H0309: 3, H0510: 3,	H0428: 3, H0040: 3,	H0087: 3, L0764: 3,	L0775: 3, L0655: 3,	L0666: 3, L0663: 3,	L0664: 3, H0547: 3,	L0749: 3, L0750: 3,	L0595: 3, H0657: 2,	H0656: 2, S0116: 2,	H0638: 2, S0356: 2,	S0360: 2, S0046: 2,
Arg-6 to Pro-21.																-		•											
4203	4204				•																								;
150 - 509	3 - 689			,					•											•		-		,					
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H0411: 2, H0550: 2	S6014: 2, H0370: 2,	H0574: 2, L0622:	.0623: 2, H0042:	S0182: 2, H0318: 2	H0085: 2, H0373:	H0275: 2, H0188:	H0030: 2, H0169:	H0124: 2, H0135:	H0038: 2, H0100:	[0042: 2, H0494: 2,	H0625: 2, H0509:	H0132: 2, H0130:	: 2, L0800: 2,	: 2, L0381: 2,	: 2, L0378: 2,	.0653: 2, L0659: 2,	,0809: 2, H0651: 2,	H0696: 2, H0134: 2,	S3014: 2, S0027: 2,	.0743: 2, L0744: 2,	.0740: 2, L0731: 2,	S0031: 2, L0604: 2	H0423: 2, H0352:	i. 1, T0002:	S0134: 1, H0583:	H0484: 1, H0661:	: 1, S0408:	S0045: 1, H0619:	i. 1, H0351:
H0411	S6014	H0574	L0623	S0182	H0085	H0275	H0030	H0124	H0038	T0042	H0625	H0132	H0538: 2, I	L0768: 2, ]	L0784: 2,	L0653	1080	9690H	S3014	L0743	1.0740	S0031	H0423	H0265: 1,	S0134	H0484	L0005: 1,	S0045	H0645: 1,
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H0369: 1, H	F0104: 1, H0592:	H0587: 1, H0333:	0643: 1, H	H0632: 1, H0270: 1	H0101: 1, H0013:	H0575: 1, S0010:	T0196: 1, H	.0115: 1, H0597:	0530: 1, H	H0009: 1, H0571:	H0081: 1, H	H0024: 1, H0095:	J0163: 1, H	S0388: 1, H	H0375: 1, H0266:	S0334: 1, H	H0286: 1, H0252:	H0039: 1, H0424:	H0213: 1, H0181:	H0673: 1, H	S0364: 1, H	30366: 1, S0036:	H0591: 1, H0551:	H0488: 1, H0412:	H0413: 1, H0623:	F0041: 1, L0475:	H0560: 1, H0561:	S0306: 1, H0714:	H0641: 1, H0633:
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H0647: 1, S0144: 1,	S0142: 1, S0344: 1,	H0695: 1, L0369: 1,	L0762: 1, L0763: 1,	L0371: 1, L0770: 1,	L0769: 1, L0638: 1,	L0796: 1, L0772: 1,	L0373: 1, L0646: 1,	L0374: 1, L0771: 1,	L0773: 1, L0648: 1,	L0766: 1, L0386: 1,	L0375: 1, L0806: 1,	•	H0144: 1, S0374: 1,	H0693: 1, L0438: 1,	H0520: 1, H0593: 1,	H0689: 1, H0690: 1,	H0658: 1, H0666: 1,	H0648: 1, H0672: 1,	H0539: 1, H0522: 1,	H0555: 1, S0028: 1,	S0032: 1, L0752: 1,	L0755: 1, H0445: 1,	S0434: 1, L0599: 1,	H0136: 1, S0192: 1,	H0542: 1, S0424: 1,	H0506: 1 and H0008: 1.		
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L0748: 28, L0754: 27,	L0740: 15, H0056: 13,	L0750: 13, S0007: 12,	L0757: 12, S0126: 11,	S0222: 10, L0731: 10,	S0360: 9, H0144: 9,	S0358: 8, H0009: 8,	L0005: 7, S0010: 7,	H0266: 7, L0742: 7,	L0752: 7, H0547: 6,	S0408: 5, S0046: 5,	L0471: 5, S0003: 5,	S0028: 5, L0758: 5,	L0362: 5, S0026: 5,	H0294: 4, H0341: 4,	H0638: 4, S0045: 4,	H0327: 4, H0039: 4,	H0031: 4, H0413: 4,	S0210: 4, L0769: 4,	L0662: 4, L0775: 4,	L0776: 4, L0809: 4,	H0689: 4, S3014: 4,	S0206: 4, L0747: 4,	H0445: 4, L0608: 4,	H0661: 3,.S0376: 3,	S0278: 3, H0369: 3,	H0441: 3, H0575: 3,	S0049: 3, S0388: 3,	S0036: 3, H0616: 3,	H0100: 3, H0494: 3,
Pro-6 to Arg-13,	Met-34 to Asp-41,	Lys-65 to Thr-74.																										·	
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\$0440: 3, L0520:	4: 3, S	2: 3, F	2:3,8	9: 3, S	4: 2, F	2: 2, H	2: 2, H	): 2, L	2: 2, F	9: 2, T	3: 2, S	8: 2, H	4:2, H	7: 2, F	8: 2, F	1: 2, F	1: 2, H	8: 2, F	8: 2, F	2: 2, F	3:2,8	2: 2, L	6: 2, L	6:2,L	4. 2, S	8: 2, S	2: 2, F	6: 2, S	1.2.1
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S0031: 2, L0605: 2,	L0592: 2, L0601: 2,	L0600: 2, L0615: 1,	H0265: 1, S0040: 1,	S0342: 1, T0049: 1,	S0134: 1, H0650: 1,	H0657: 1, S0116: 1,	H0663: 1, H0177: 1,	H0125: 1, H0192: 1,	S0348: 1, S0356: 1,	S0442: 1, S0354: 1,	S0444: 1, S0410: 1,	T0008: 1, H0580: 1,	H0208: 1, S0132: 1,	S6026: 1, S0300: 1,	H0549: 1, H0431: 1,	H0370: 1, H0438: 1,	H0574: 1, H0250: 1,	H0427: 1, H0097: 1,	T0082: 1, H0421: 1,	L2250: 1, H0309: 1,	T0110: 1, H0544: 1,	H0086: 1, H0563: 1,	H0014: 1, H0051: 1,	H0021: 1, H0083: 1,	H0594: 1, S6028: 1,	H0687: 1, H0290: 1,	H0286: 1, S0214: 1,	H0622: 1, T0023: 1,	H0111: 1, H0628: 1,
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H0617:	H0160	H016	H003	1.0564	T0042	S0438	H064	79207	1.0372	L0771	L0521	79/07	L5574: 1	)5907]	L0376: 1	L0527: 1	L0518: 1	L0545: 1	T066	S0216: 1	H059	690H	)990H	H053	S0332	H070	S014¢	L0749	H044
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L0596: 1, L0588: 1, L0599: 1, L0366: 1, S0011: 1, H0668: 1, H0216: 1, S0242: 1, S0196: 1, H0542: 1, H0543: 1, L0697: 1, L0698: 1, S0398: 1, S0424: 1, S3020: 1 and S0460: 1.			S0408: 5, L0809: 5,	.0800: 4, L0804: 4,	H0647: 3, L0803: 3,	775: 3, L0805: 3,	S0126: 3, L0751: 3,	S0360: 2, S0278: 2,	H0409: 2, H0424: 2,	H0617: 2, H0494: 2,	,0783: 2, H0670: 2,	.0747: 2, L0777: 2,	.0731: 2, L0601: 2,	H0556: 1, H0295: 1,	S0116: 1, H0341: 1,	S0442: 1, S0358: 1,	76: 1, H0370: 1,	H0042: 1, H0575: 1,	S0049: 1, H0150: 1,	H0163: 1, S0294: 1,	S0438: 1, H0633: 1,
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	Asn-1 to Lys-6.															-					
	4208	4209	4210									•	•.	,			,				
	108 - 365	2 - 508	1 - 537										,,								
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	HVCAI24R	HVCAI79R	HVCAJ27R		-									-							
	HVCAI24		HVCAJ27																		

H0529: 1, L0769: 1, L0374: 1, L0764: 1, L0360: 1, L0774: 1, L0376: 1, L0629: 1, L0807: 1, L0657: 1, L0659: 1, L0791: 1, L0666: 1, H0682: 1, H0683: 1, H0658: 1, H0666: 1, S0328: 1, H0539: 1, H0555: 1, L0779: 1, L0752: 1, L0757: 1, L0758: 1, L0759: 1, H0667: 1 and				H0009: 3, H0135: 3, H0494: 3, H0265: 2, H0341: 2, H0484: 2, S0046: 2, S0222: 2, H0266: 2, S0144: 2, H0658: 2, L0742: 2, H0542: 2, H0423: 2, H0171: 1, T0002: 1,
	Lys-61 to Gln-73, Gln-81 to Ser-97.	Arg-14 to Gly-41, Arg-47 to Glu-53, Gln-56 to Lys-70.	Glu-1 to Lys-9.	
	4211	4212	4213	4214
	1 - 477	1 - 210	3 - 467	3 - 383
	2036	2037	2038	2030
	HVCAJ81R	HVCAJ95R	HVCAK02R	HVCALO6 HVCALO6R
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H0685 1 S0040 1	H0295: 1, S0420: 1,	S0356: 1, S0360: 1,	H0392: 1, H0586: 1,	T0109: 1, H0427: 1,	H0599: 1, H0618: 1,	H0318: 1, H0597: 1,	H0544: 1, H0012: 1,	H0024: 1, H0014: 1,	S0022: 1, H0428: 1,	H0535: 1, H0068: 1,	H0090: 1, H0040: 1,	H0063: 1, H0264: 1,	H0413: 1, T0042: 1,	H0560: 1, H0633: 1,	S0142: 1, S0422: 1,	H0529: 1, H0519: 1,	S0126: 1, H0684: 1,	H0666: 1, H0672: 1,	H0134: 1, H0214: 1,	H0631: 1, S0027: 1,	S0028: 1, L0753: 1,	L0757: 1, L0599: 1,	L0608: 1, L0594: 1,	_	H0136: 1, S0276: 1 and	H0543: 1.			
																											Pro-56 to Thr-65.		Val-105 to Ile-113,
																											4216	4217	4218
					•			-																			10 - 306	3 - 407	28 - 480
																											2041	2042	2043
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					L0777: 12, H0341: 6,	S0440: 6, S0126: 6,	S0358: 5, H0250: 5,	H0428: 5, H0031: 5,	H0090: 5, L0747: 5,	L0731: 5, H0542: 5,	S0422: 4, H0547: 4,	L0748: 4, L0749: 4,	L0759: 4, H0624: 3,	H0580: 3, H0486: 3,	S0003: 3, S0214: 3,	H0494: 3, L0770: 3,	L0764: 3, L0758: 3,	L0599: 3, S0026: 3,	H0543: 3, H0170: 2,	H0657: 2, H0656: 2,	S0420: 2, S0442: 2,	S0444: 2, S0010: 2,	H0318: 2, H0581: 2,	H0046: 2, H0014: 2,	H0083: 2, L0483: 2,	H0040: 2, H0551: 2,	L0769: 2, L0773: 2,	L0766: 2, L0774: 2,	L0659: 2, H0144: 2,
Asp-128 to Phe-137,	Arg-145 to Arg-151.	Asp-15 to Thr-23.										·											•						
		4219	4220	4221	4222																•		•						
·		193 - 402	3 - 455	2-715	1 - 687																								
		2044	2045	2046	2047																								
		HVCAQ84R	HVCAR87R	HVCAS08 HVCAS08R	HVCAS52R			·																		·			
		HVCAQ84	HVCAR87	HVCAS08	HVCAS52																								

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L0565: 2, H0659: 2,	H0666: 2, H0648: 2,	S0328: 2, H0525: 2,	H0696: 2, H0134: 2,	S0406: 2, L0756: 2,	.0752: 2, L0757: 2,	S0436: 2, L0595: 2,	S0384: 2, H0506: 2,	H0171: 1, S0040: 1,	F0049: 1, H0661: 1,	H0638: 1, S0418: 1,	S0354: 1, S0360: 1,	410: 1, S0007: 1,	S0300: 1, S0278: 1,	S6014: 1, H0431: 1,	H0587: 1, H0333: 1,	H0574: 1, H0270: 1,	C0040: 1, L0586: 1,	H0635: 1, H0156: 1,	T0082: 1, H0706: 1,	S0346: 1, H0421: 1,	H0552: 1, H0597: 1,	H0545: 1, H0242: 1,	.0471: 1, H0373: 1,	S0051: 1, H0375: 1,	H0594: 1, H0687: 1,	H0288: 1, H0328: 1,	H0553: 1, L0143: 1,	H0032: 1, H0598: 1,	H0634: 1, H0616: 1,
TOT	OH	20.	OH	SÓ.	2	<u>20</u> 5	<u>203</u>	HO	TO	OH	.0S	- <u>S</u> O	.0S	98	OH	OH	TO	OH HO	<u>ot</u>	SO	OH HO	OH	<u>r</u>	<u> </u>	HO	OH	OH	OH HO	OH HO
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H0413: 1, H0100: 1, T0042: 1, H0560: 1, H0625: 1, H0561: 1, S0150: 1, H0633: 1, H0652: 1, L0763: 1, L0371: 1, L0648: 1, L0667: 1, L0648: 1, L0649: 1, L0662: 1, L0776: 1, L0649: 1, H0670: 1, L0669: 1, H0644: 1, H0669: 1, H0670: 1, H0660: 1, H0670: 1, S0152: 1, S0332: 1, S0454: 1, H0214: 1, S0027: 1, S0028: 1, S0026: 1, L0740: 1, L0750: 1, S0434: 1, L0581: 1,	S0242: 1, S0194: 1, H0422: 1 and S0424: 1.	L0748: 6, L0439: 6, L0731: 6, H0663: 4, S0354: 4, H0038: 3, S0150: 3, L0666: 3	20120: 2, 20000: 2,
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S0404: 3, L0758: 3,	S0212: 2, H0497: 2,	H0551: 2, H0412: 2,	10561: 2, S0210: 2,	.0521: 2, L0526: 2,	H0506: 2, H0661: 1,	S0418: 1, S0420: 1,	S0358: 1, S0408: 1,	10619: 1, H0431: 1,	H0486: 1, T0040: 1,	70060: 1, H0013: 1,	.0021: 1, H0590: 1,	H0581: 1, H0052: 1,	H0263: 1, H0373: 1,	H0266: 1, S0312: 1,	S0314: 1, S0022: 1,	H0622: 1, H0553: 1,	H0708: 1, H0413: 1,	10560: 1, L0640: 1,	.0646: 1, L0764: 1,	,0649: 1, L0389: 1,	,0804: 1, L0659: 1,	L0543: 1, L0789: 1,	,0664: 1, H0697: 1,	S0374: 1, H0520: 1,	H0435: 1, H0659: 1,	H0666: 1, S0152: 1,	S0406: 1, H0436: 1,	S0027: 1, L0742: 1,	.0753: 1, L0595: 1,
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H0668: 1, S0276: 1 and H0422: 1.					-	AR039: 419, AR096:	339, AR053: 225,	AR052: 212, AR104:	168. AR089: 168.	AR060: 114. AR033:	108, AR055: 99,	AR061: 74							-	•						
	Arg-7 to Val-15.	Val-3 to Lys-9, Leu-32 to Gln-40.											•	Lys-7 to Thr-13,	Asp-24 to Thr-30,	Gly-39 to Glu-52.			,		Ser-25 to Asn-31,	Asp-38 to Val-48,	Ser-57 to Gly-63.		Pro-1 to Ser-7,	val-22 to Asn-29,
	4224	4225	4226	4227	4228	4229			_		٠			4230	,		4231	4232	4233	4234	4235			4236	4237	
	3 - 404	190 - 309	3 - 431	3 - 524	3 - 251	2 - 361								22 - 318			2 - 448	2 - 298	34 - 699	1 - 156	203 - 469			1-315	31 - 459	
	2049	2050	2051	202	2053	2054								2055			2056	2057	2058		2060			2061	2062	
	HVCAU64R	HVCBD18R	HVCBE76R	HVCBE79 HVCBE79R	HVCBF38R	HVCBF89R		•						HVCBG01R			HVCBQ31R	HVCCA08   HVCCA08R	HVCCK34R	HVCCR91 HVCCR91R	HVCCV93 HVCCV93R			HVCDA75R	HVCDD19 HVCDD19R	
	HVCAU64	HVCBD18	HVCBE76	HVCBE79	HVCBF38	HVCBF89								HVCBG01			HVCBQ31	HVCCA08	HVCCK34	HVCCR91	HVCCV93			HVCDA75	HVCDD19	

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				H0666: 8, S0144: 6,	L0747: 5, H0545: 4,	L0769: 4, L0766: 4,		L0764: 3, L0794: 3,		L0758: 3,	H0257: 2, H0581: 2,	H0546: 2, H0135: 2,	L0803: 2, L0657: 2,	L0789: 2, L0666: 2,	S0044: 2, H0445: 2,	L0588: 2, L0594: 2,	L0601: 2, H0543: 2,	S0040: 1, H0295: 1,	H0583: 1, S0116: 1,	S0212: 1, H0661: 1,	H0664: 1, S0418: 1,	S0356: 1, S0358: 1,	S0360: 1, S0007: 1,	S0046: 1, S0132: 1,	S0278: 1, H0592: 1,	H0586: 1, H0559: 1,	H0575: 1, S0182: 1,	H0620: 1, S0388: 1,	H0083: 1, S0312: 1,
Pro-45 to Pro-51,	Arg-59 to Val-64,	Val-92 to Lys-98.		Ser-56 to Phe-69,	Arg-113 to Thr-123,	Leu-128 to Ser-135,	Lys-148 to Ala-156,	Gly-166 to Ser-171,	Glu-188 to Leu-194,	Ala-211 to Gly-222.															•		,		
			4238	4239																				1	•		•		
			3 - 353	2-679																									
			2063																										
			<b>HVCDF50R</b>	HVCDH77 HVCDH77R																									
			HVCDF50	HVCDH77																			,						

H0617: 1, H0169: 1, H0708: 1, H0163: 1, H0551: 1, H0488: 1, T0069: 1, H0102: 1, H0100: 1, H0494: 1, L0475: 1, H0646: 1, S0142: 1, S0002: 1, L0646: 1, L0796: 1, L0645: 1, L0771: 1, L0662: 1, L0771: 1, L0738: 1, L0790: 1, L0783: 1, L0790: 1, L0791: 1, L0663: 1, H0144: 1, L0438: 1, H0519: 1, H0134: 1, S3014: 1, L0757: 1, S0031: 1, L0592: 1, H0665: 1, S0276: 1 and H0422: 1.				L0766: 12, S0412: 8, S0422: 4, L0756: 4,	H0341: 3, H0638: 3,	L0770: 3, L0666: 3,	H0318: 2, H0327: 2,
	4240	4241	4242	4243			
	3 - 155	74 - 619	56 - 238	403 - 570			
·	2065	2066	2067	2068	•		
	HVVAB25R	HVVAB37 HVVAB37R	HVVAC18R	HVVAD74R			
	HVVAB25	HVVAB37	HVVAC18	HVVAD74			

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L0803: 2, H0670: 2,	L0740: 2, L0731: 2,	S0260: 2, S0436: 2,	H0170: 1, H0125: 1,	S0418: 1, S0444: 1,	H0489: 1, H0580: 1,	H0734: 1, S0222: 1,	H0587: 1, H0497: 1,	H0013: 1, H0075: 1,	H0427: 1, H0046: 1,	H0354: 1, L0142: 1,	L0055: 1, H0090: 1,	H0412: 1, S0440: 1,	H0647: 1, H0529: 1,	L0369: 1, L0371: 1,	L0772: 1, L0646: 1,	L0771: 1, L0649: 1,	L0381: 1, L0650: 1,	_	L0655: 1, L0606: 1,	L0790: 1, L0532: 1,	L0663: 1, L0664: 1,	S0374: 1, H0593: 1,	H0711: 1, H0659: 1,	H0658: 1, H0672: 1,	H0521: 1, L0779: 1,	 L0759: 1, L0593: 1,	S0242: 1, H0423: 1 and	H0721: 1.
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	H0672: 2, L0748: 2, H0156: 1 and H0494: 1.	L0747: 5, L0731: 4, L0742: 3, L0745: 3, L0769: 2, L0766: 2, L0774: 2, L0597: 2,	L0604: 2, T0049: 1, S0358: 1, H0549: 1, H00486: 1, T0040: 1	S0280; 1, H0318; 1, H0763: 1 H0551: 1	H0633: 1, H0529: 1,	L0640: 1, L0763: 1,	L0771: 1, L0768: 1, L0388: 1, L0657: 1,	L0659: 1, L0517: 1,	L0666: 1, L0663: 1,	H0648: 1, H0672: 1,	H0521: 1, L0749: 1,	L0750: 1, L0779: 1, 1 0780: 1 and 1 0592: 1	•			-			٠,	
Glu-21 to Ile-26.	Ser-1 to Asp-9, Lys-26 to Gln-36.						•			,				Gln-33 to Ala-38,	Thr-47 to Asn-64,	Pro-117 to Leu-122,	Thr-160 to Gly-171.	His-1 to Trp-6,	Gly-28 to Asp-34,	Arg-41 to Ala-53,
4244	4245	4246										•	4247	4248				4249	-	.:
96 - 347	157 - 381	3 - 245								-			2 - 307	3 - 527				1 - 327	•	
2069	2070	2071										,	2072	2073				2074		
HVVAE73 HVVAE73R	HVVAE88R	HVVAH91 HVVAH91R							•				HVVAI03R	HVVAJ23R				HVVAJ28R		
HVVAE73	HVVAE88	HVVAH91											HVVAI03	HVVAJ23				HVVAJ28		,

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	L0659: 55, H0644: 23,	L0748: 18, L0666: 17,	L0747: 17, H0622: 16,	S0194: 16, H0553: 15,	L0662: 15, S0126: 15,	L0740: 15, L0754: 14,	H0031: 13, H0593: 12,	L0649: 11, H0435: 11,	L0757: 11, H0124: 10,	S0250: 9, S0356: 8,	H0672: 7, L0362: 7,	L0779: 6, S0210: 5,	L0771: 5, L0663: 5,	L0664: 5, H0547: 5,	L0750: 5, L0601: 5,	S0360: 4, H0619: 4,	L0764: 4, L0804: 4,	L0775: 4, S0358: 3,	H0486: 3, H0628: 3,	H0264: 3, L0451: 3,	L0776: 3, L0655: 3,	L0783: 3, H0693: 3,	H0660: 3, S0454: 3,	L0749: 3, L0605: 3,	S0192: 3, H0170: 2,	H0294: 2, S0180: 2,	H0586: 2, H0013: 2,	H0687: 2, H0428: 2,
Arg-69 to Thr-76, Leu-97 to Glu-103.													.,												·			
	4250											٠																
	159 - 443					٠									,		•											
	2075																		,									
	HVVAJ47R						•		•																		;	
	HVVAJ47	-																	·									

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L0483: 2, H0488: 2,	S0450: 2, H0647: 2,	S0208: 2, L0648: 2,	L0523: 2, L0809: 2,	L0665: 2, H0144: 2,	L0565: 2, H0690: 2,	H0518: 2, H0696: 2,	S3012: 2, L0752: 2,	L0755: 2, L0731: 2,	H0665: 2, H0171: 1,	H0656: 1, S0212: 1,	S0376: 1, S0410: 1,	S0132: 1, H0393: 1,	L0717: 1, H0392: 1,	H0331: 1, H0485: 1,	T0040: 1, T0060: 1,	L0021: 1, H0599: 1,	T0082: 1, H0618: 1,	H0052: 1, H0085: 1,	T0110: 1, H0046: 1,	H0050: 1, L0471: 1,	H0355: 1, S0003: 1,	H0615: 1, H0039: 1,	L0143: 1, H0111: 1,	L0455: 1, S0366: 1,	H0135: 1, H0040: 1,	H0551: 1, H0100: 1,	L0564: 1, H0509: 1,	H0517: 1, L0763: 1,	L0769: 1, L0772: 1,
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L0646: 1, L0768: 1, L0375: 1, L0784: 1, L0806: 1, L0805: 1, L0653: 1, L0654: 1, L0517: 1, L0384: 1, L0789: 1, L0647: 1, L0789: 1, L0791: 1, H0689: 1, H0682: 1, H0689: 1, R0152: 1, H0704: 1, R0152: 1, H0704: 1, S0152: 1, S0432: 1, S014: 1, S0432: 1, S014: 1, S0436: 1, L0758: 1, L0744: 1, L0758: 1, H0595: 1, R0196: 1, L0599: 1, S0196: 1, L0600: 1.			L0747: 22, L0599: 11, L0766: 9, L0748: 9, L0483: 8, L0740: 7, L0665: 5, L0754: 5,
		Lys-1 to Lys-14, Phe-21 to Trp-26, Val-87 to Cys-92, Thr-139 to Gln-153, Gln-156 to Lys-162, Glu-171 to Leu-177.	
	4251	4252	4253
	121 - 312	3 - 782	372 - 584
	2076	2077	2078
	HVVAK42R	HVVAK46R	HVVAK68R
	HVVAK42	HVVAK46	HVVAK68

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0775: 4, 0695: 3, 0144: 3, 0170: 2,	10251: 2, .0471: 2, 10553: 2,	.0/63: 2, 0655: 2, 0666: 2,	S0406: 2, L0749: 2, L0757: 2.	H0445: 2, L0591: 2,	L0608: 2, H0624: 1,	1, H0650: 1, 1, H0663: 1, 1, 5044: 1	0300: 1, 10442: 1.	H0587: 1,	10486: 1,	10004: 1,	H0041: 1,
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H0014: 1, S0051: 1,	H0071: 1, H0083: 1,	H0687: 1, S0003: 1,	S0214: 1, H0688: 1,		H0038: 1, H0040: 1,	H0616: 1, H0063: 1,	H0059: 1, T0069: 1,	L0475: 1, S0015: 1,	H0633: 1, H0538: 1,	L0769: 1, L0796: 1,	L0637: 1, L0373: 1,	L0521: 1, L0375: 1,	 L0527: 1, L0656: 1,	1	<u>_</u>	H0682: 1, H0435: 1,	H0659: 1, H0670: 1,	H0672: 1, S0330: 1,	H0521: 1, H0696: 1,	H0134: 1, H0214: 1,	H0555: 1, L0746: 1,	L0750: 1, L0752: 1,	L0759: 1, H0343: 1,	L0589: 1, L0590: 1,	S0194: 1, H0543: 1,	S0452: 1 and H0506: 1.	,	AR089: 67, AR104: 8,
			•																				-		-			Gly-72 to Asp-81.
			-													·											4254	4255
										-					-						•						2 - 373	97 - 408
				•																							2079	2080
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AR096: 5. AR060: 4.	4, AR061:	H0169: 21, H0674: 19,	L0754: 19, H0309: 15,	T0060: 7, H0038: 7,	H0509: 7, S0044: 7,	S0358: 6, H0124: 6,	H0163: 6, H0672: 6,	L0731: 6, L0750: 5,	L0603: 5, H0032: 4,	H0616: 4, S0330: 4,	L0749: 4, L0755: 4,	H0597: 3, S0318: 3,	H0622: 3, L0540: 3,	S0328: 3, S0406: 3,	L0758: 3, S0444: 2,	H0486: 2, H0122: 2,	H0355: 2, S0316: 2,	L0770: 2, L0646: 2,	L0771: 2, L0662: 2,	L0364: 2, L0803: 2,	L0783: 2, H0696: 2,	L0743: 2, L0747: 2,	L0581: 2, H0506: 2,	S0356: 1, S0376: 1,	H0675: 1, H0643: 1,	H0706: 1, H0253: 1,	H0085: 1, H0204: 1,	H0510: 1, S0314: 1,	H0553: 1, H0673: 1,
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S0366: 1, H0380: 1, T0004: 1, S0438: 1, L0372: 1, L0773: 1, L0767: 1, L0806: 1, L0542: 1, L0809: 1, L0519: 1, L0529: 1, H0691: 1, S0148: 1, H0660: 1, S0004: 1, S0146: 1, L0780: 1,						H0672: 2, S0007: 1, L0717: 1, H0545: 1, L0764: 1, L0649: 1, L0659: 1, L0809: 1, L0438: 1, H0555: 1, L0748: 1, L0754: 1 and L0752: 1.	L0659: 14, L0740: 11, H0052: 8, L0662: 8, L0666: 8, H0059: 7, H0265: 6, H0040: 6,
	Arg-1 to Cys-10, Asn-29 to Phe-38.		Lys-62 to Tyr-73.		Leu-36 to Ser-43, Gly-68 to Phe-73.	Lys-17 to Tyr-22.	•
	4256	4257	4258	4259	4260	4261	4262
	124 - 354	3 - 413	1 - 324	2 - 436	3 - 236	7 - 171	1 - 189
	2081	2082	2083	2084	2085	2086	2087
	HVVAP65 HVVAP65RP 00B	HVVAS27RP 00B	HVVAW26 HVVAW26R	HVVBD91 HVVBD91RP	HVVBF09R	HVVBF66R	HVVBH88R
	HVVAP65	HVVAS27	HVVAW26	HVVBD91	HVVBF09	HVVBF66	НУУВН88

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L0596: 6, S0356: 5, S0358: 5, H0539: 5, L0751: 5, L0750: 5, H0442: 3, H0575: 3, H0442: 3, H0575: 3, H0642: 3, H0651: 3, H06413: 3, H06413: 3, H06413: 3, H06413: 3, L0521: 3, L0663: 3, L0521: 3, L0663: 3, L0664: 3, L0665: 3, L0664: 3, L0666: 2, H0013: 2, H0013: 2, H0013: 2, H0013: 2, H0013: 2, H0013: 2, H0024: 2, H0038: 2, H0038: 2, L0769: 2, L0					:					,							·		•			···								
10596 80358 10751 10751 10752 10753 10753 10753 10753 10753 10753 10753 10753 10753 10753 10753 10753 10753	5: 6. S0356: 5.	5. 5. H0539: 5.	l: 5, L0750: 5,	1: 4, L0759: 4,	2: 3, H0575: 3,	1: 3, T0010: 3,	8: 3, H0031: 3,	5: 3, H0433: 3,	2: 3, H0509: 3,	7: 3, L0372: 3,	l: 3, L0806: 3,	): 3, L0663: 3,	4: 3, L0665: 3,	3: 3, L0591: 3,	3: 3, H0483: 2,	): 2, H0587: 2,	3: 2, H0036: 2,	): 2, S0049: 2,	4: 2, T0110: 2,	6: 2, H0123: 2,	4: 2, H0083: 2,	9: 2, T0006: 2,	8: 2, H0538: 2,	2: 2, L0769: 2,	5: 2, L0646: 2,	4: 2, L0648: 2,	5: 2, H0520: 2,	9: 2, H0689: 2,	5: 2, S0028: 2,	,0439: 2, L0752: 2,
	6507	80328	L0751	H043	H044	H005	H042	H013	H041	L0637	1.052	10519	7990T	S0378	[1059]	9803	H001.	S0010	H019	H004	H002	H017	H003	2000S	1079	1037	10776	H051	H055	L0439
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0366: 2,	10556: 1,	0114: 1,	0212: 1,	[0125: 1,	0354: 1,	0675: 1,	0468: 1,	0005: 1,	0109: 1,	0505: 1,	[0581: 1,	10309: 1,	[0545: 1,	,0471: 1,	H0620: 1,	1, S0051: 1,	H0266: 1,	S0214: 1,	H0039: 1,	10424: 1,	10553: 1,	[0316: 1,	0634: 1,	10551: 1,	0041: 1,	0475: 1,	0144: 1,	0344: 1,	0638: 1,
L0755: 2, L0366: 2,	H0542: 2, H0556: 1	S0040: 1, S0114: 1,	T0049: 1, S0212: 1	H0638: 1, H0125: 1,	S0420: 1, S0354:	S0376: 1, H0675:	H0489: 1, S0468:	S0132: 1, S0005:	H0492: 1, T0109:	S0346: 1, H0505:	H0318: 1, H0581:	H0196: 1, H0309:	H0263: 1, H0545:	H0050: 1, L0471:	•	H0014: 1, S	H0510: 1, F	H0188: 1, S	H0252: 1, F	H0622: 1, H0424:	H0030: 1, H0553:	H0644: 1, H0316:	S0036: 1, H0634:	H0087: 1, H0551:	L0564: 1, T0041:	T0042: 1, L0475:	H0130: 1, S0144:	S0142: 1, S0344:	S0210: 1, L0638: 1
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L0761: 1, L0803: 1,	L0653: 1, L0661: 1,	L0527: 1, L0636: 1,	L0783: 1, L0809: 1,	T0068: 1, L0438: 1,	S0126: 1, H0690: 1,	H0682: 1, H0435: 1,	H0658: 1, H0670: 1,	H0660: 1, H0672: 1,	H0651: 1, S0380: 1,	H0522: 1, S0044: 1,	H0478: 1, H0479: 1,	S0027: 1, L0742: 1,	L0748: 1, L0747: 1,	1.0756: 1. 1.0757: 1.	; ;	H0445: 1, L0597: 1,	L0581: 1, L0603: 1,	S0011: 1, S0194: 1,	_	L0697: 1 and H0506: 1.				•				
					- ·				-						-							Gln-5 to Pro-13,	Pro-25 to Lys-32,	Asp-62 to Ser-72,	Gln-78 to Ser-85,	Pro-91 to GIU-105.		
									٠												4263	4264					4265	4266
																					2 - 592	150 - 578					3 - 413	1-633
																					2088	5089					2090	2091
									-												HVVBI16R	HVVBJ08R					HVVBJ55RP 00B	HVVBK13R
																					HVVBI16	HVVBJ08					HVVBJSS	HVVBK13

																				•							
														-	-			-		L0439: 23, L0438: 20,	H0556: 10, L0665: 10,	S0358: 9, L0731: 8,	H0423: 8, H0069: 7,	H0622: 7, L0666: 7,	L0748: 7, L0747: 7,	H0486: 6, H0090: 6,	L0664: 6, H0519: 6,
Pro-62 to Pro-73,	Thr-80 to Ser-92,	Gln-108 to Tyr-116.			Asn-15 to Leu-27,	Lys-48 to Val-53.			Pro-1 to Phe-9,	Ser-111 to Asn-117,	Ser-159 to Pro-167.	Ser-56 to Tyr-62,	Gln-67 to Pro-74,	Thr-83 to Gly-94,	Gln-120 to Gln-130,	Pro-150 to Ser-157.		Lys-40 to Gly-47.		•						•	·
4267			4268	4269	4270		4271	4272	4273			4274					4275	4276	4277	4278							
3 - 644			50 - 433	2 - 406	116 - 316		454 - 2	3 - 161	2 - 580			1 - 792		,			299 - 427	224 - 481	2 - 640	447 - 695							
2092			2093	2094	2095		2096	2097	2098			2099					2100	2101	2102	2103							
HVVBO65 HVVBO65R			HVVBO88R	HVVBR70 HVVBR70RP	HVVBT33R		HVVBT60R	HVVBY87R	HVVCB04 HVVCB04R			HVVCB08R					HVVCC06 HVVCC06R	HVVCD65 HVVCD65R	HVVCD81 HVVCD81R	HVVCD87 HVVCD87R							,
HVVBO65			HVVBO88	HVVBR70	HVVBT33		HVVBT60	HVVBY87	HVVCB04			HVVCB08					HVVCC06	HVVCD65	HVVCD81	HVVCD87			<del></del>				

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749: 6,	435: 5,	758: 5,	013: 4,	150: 4,	038: 4,	562: 4,	563: 4,	672: 4,	104: 4,	265: 3,	550: 3,	360: 3,	333: 3,	318: 3,	620: 3,	375: 3,	039: 3,	040: 3,	412: 3,	529: 3,	775: 3,	547: 3,	136: 3,	752: 3,	524: 2,	583: 2,	563: 2,	638: 2,
H0539: 6, L0749: 6, L0596: 6, S0222: 5.	H0457: 5, H0435: 5,	1.0756: 5, 1.0758: 5,	L0601: 5, H0013: 4,	H0046: 4, H0150: 4	H0266: 4, H0038: 4,	L0771: 4, L0662: 4,	L0659: 4, L06	H0670: 4, H0672: 4,	H0521: 4, S04	L0745: 4, H0265: 3,	S0114: 3, HO	H0662: 3, S0360: 3,	S0045: 3, H0333: 3,	H0156: 3, H0318: 3,	H0050: 3, H0	T0010: 3, H0375: 3,	H0428: 3, H0	H0591: 3, H0040: 3,	H0063: 3, H0412: 3,	H0100: 3, HO	L0770: 3, L0775: 3,	L0809: 3, H0547: 3,	S0126: 3, H0436: 3,	L0741: 3, L0752: 3,	S0026: 3, H0624: 2,	H0713: 2, H0583: 2,	S0116: 2, H0663: 2,	H0305: 2, H0638: 2,
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SO418: 2, S0442: 2, H0580: 2, S0070: 2, H0580: 2, S0070: 2, H0580: 2, E0051: 2, H0392: 2, H0361: 2, H0362: 2, H0362: 2, H0362: 2, H0362: 2, H0362: 2, H0587: 2, H0687: 1, H0686: 1, H0687: 1, H0686: 1, H0687: 1, S0218: 1, H0687: 1, S0218: 1, H0687: 1, S0218: 1, H0687:												<del></del>								<del></del> -									
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	0442	0717	H0392	<b>H0587</b>	<b>H027</b> 1	H0553	<b>H0616</b>	H0560	.0773	,0774	9080	0517	10690	10658	.0757	<b>10542</b>	0090	30218	H0656	30298	0110	0030	30420	0376	0046	10550	10438	10485	30280
	3: 2, S		l: 2, I	5: 2, I	5: 2, I	7: 2, I	5: 2, F	3: 2, I	1:2,I	1.2, I	3: 2, I	3: 2, I	7: 2, F	9: 2, I	): 2, I	3: 2, F	2: 2, I	1:1,5	7: 1, 1	1:1,5	2: 1, S	: 1, S	1: 1, 5	5: 1, S	: 1, S	5: 1, E	1: 1, I	2: 1, I	
	S0418 H058(	H0619	H026	H0580	H063	H068	L045(	H041	L0764	L0521	L0378	L0493	L0647	H065	L074(	L0588	H042	H017	H065′	H034	S0212	S0001	H066	S0356	S044	S0476	H044	H049	H042
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	: 1, S	: 1, H	: 1, H	: 1, H	: 1, H	: 1, H	: 1, S	i. 1, H	: 1, S		: 1, T(	•	: 1, H	: 1, L(	: 1, H	: 1, H	: 1, H	: 1, H	: 1, S		.0369: 1, L0769:	: 1, L	: 1, L	: 1, L		: 1, L	Τ,	: 1, L	: 1, S(
S0010:	H0581	H0052:	H0309:	H0597:	H0563	H0012:	H0051	H0356	H0175	H0252:	F0023: 1	H0031: 1	L0055	S0364	3900H	S0036	H0551	<b>I</b> 0041	H0641	S0002: 1	L0369	L5575: 1	L0373: 1,	L0363: 1	L0649: 1,	L0650: 1	L0661:	L0384: 1	L0792:
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H0144: 1, L0352: 1, H0520: 1, H0682: 1, H0660: 1, H0651: 1, H0710: 1, H0518: 1, S0152: 1, H0579: 1, H0696: 1, S0146: 1, H0576: 1, H0631: 1, S3012: 1, S0037: 1, S0028: 1, L0751: 1, L0754: 1, L0779: 1, L0777: 1, L0780: 1, L0753: 1, L0759: 1, L0687: 1, L0599: 1, L0687: 1, L0599: 1, L0608: 1, L0599: 1, H0136: 1, S0242: 1, S0194: 1, S0276: 1, H0543: 1, S0424: 1 and S0452: 1.					H0135: 2, S0046: 1, S0222: 1, H0052: 1,	H0672: 1, S0328: 1 and H0214: 1.		
								Gly-16 to Lys-22, Trp-82 to Lys-87.
	4279	4280	4281	4282	4283		4284	4285
	47 - 754	338 - 778	2 - 214	3 - 497	1 - 441		2-415	3 - 350
	2104	2105	2106	2107	2108		2109	2110
	HVVCD90R	HVVCE63R					HVVCG31R	HVVCG46 HVVCG46R
	HVVCD90	HVVCE63	HVVCE65	HVVCF38	HVVCG29		HVVCG31	HVVCG46

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Arg-48 to Asn-57, AR089: 107, AR096: Lys-77 to Glu-83, 52, AR104: 30, AR060: Phe-106 to Asp-112. 27, AR061: 14, AR055:								H0585: 4, H0457: 4,	L0809: 4, L0747: 4,	S0442: 3, H0492: 3,	H0427: 3, H0318: 3,	L0666: 3, H0690: 3,	H0686: 2, H0662: 2,	S0358; 2, S0408; 2,	H0150: 2, H0135: 2,	H0063: 2, H0494: 2,	L0761: 2, L0764: 2,	L0773: 2, L0662: 2,	L0378: 2, L0665: 2,	H0670: 2, S0406: 2,	L0744: 2, L0749: 2,	L0601: 2, H0170: 1,
Arg-48 to Asn-57, Lys-77 to Glu-83, Phe-106 to Asp-112.	Glu-81 to Gly-91, Arg-107 to Asn-116.	Asp-10 to Lys-15, Lys-29 to Asp-34.		Asp-1 to Thr-14,	Ala-76 to Thr-88,	Asp-101 to Lys-115,	Ala-128 to Gln-136, Pro-141 to Gln-151.														٠	
4286	4287	4288	4289	4290		• •		4291														
1 - 405	3 - 350	3 - 119	44 - 460	3 - 647				1 - 351														
2111	2112	2113	2114	2115			• • • • • • • • • • • • • • • • • • • •	2116										-				
HVVCG93 HVVCG93R	HVVCH28 HVVCH28R	HVVCI28R	HVVCI50R	HVVCI85R		-		HVVCJ51R												,		
HVVCG93	HVVCH28	HVVCI28	HVVCI50	HVVCI85				HVVCJ51														

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H0685: 1, H0661: 1,	H0402: 1, S0348: 1,	S0354: 1, S0376: 1,		HO586: 1, H0333: 1,	H0642: 1, L0622: 1,	S0280: 1, H0599: 1,	H0253: 1, H0231: 1,	10545: 1, H0373: 1,	H0266: 1, H0553: 1,	S0036: 1, H0551: 1,	H0116: 1, H0264: 1,	H0059: 1, S0352: 1,	30440: 1, H0646: 1,	.0640: 1, L0639: 1,	.0630: 1, L0772: 1,	.0373: 1, L0646: 1,	.0800: 1, L0641: 1,	.0374: 1, L0644: 1,	.0645: 1, L0794: 1,	.0766: 1, L0774: 1,	.0775: 1, L0659: 1,	.0793: 1, L.0532: 1,	.0664: 1, H0520: 1,	H0672: 1, S0380: 1,	H0696: 1, H0478: 1,	<b></b>	•		H0422: 1.
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L0751: 3, L0757: 3, L0662: 2, H0686: 1, H0266: 1, L0055: 1, L0763: 1, L0764: 1, L0768: 1, L0805: 1, L0653: 1, L0666: 1, H0690: 1, H0672: 1, L0777: 1, L0758: 1 and S0276: 1.										-								H0521: 182, H0522:	34, S0002: 30, S0278:	Z/, H0638: 23, S0344:
		Pro-11 to Lys-31,	Ser-36 to Gln-44,	Thr-53 to Gly-58,	Ala-74 to Arg-87, Pro-105 to His-113.	Gly-8 to Lys-22,	Phe-29 to Trp-34,	Val-95 to Cys-100,	Thr-147 to Gln-161,	Gln-164 to Lys-170,	Glu-179 to Leu-185,	Pro-194 to Gly-199.	Trp-36 to Thr-43,	Gly-51 to Thr-70,	Tyr-87 to Glu-97.					
4292	4293	4294			,	4295							4296			4297	4298	4299		
1 - 147	3 - 320	1 - 339				2 - 775							3 - 293			3 - 347	35 - 466	96 - 332		
2117	2118	2119				2120							2121			2122	2123	2124		
HVVCK59R HVVCK59R	HVVCK78R	HVVCL52R				HVVCL73R							HVVCM67 HVVCM67R			HVVCM84R	HVVCN20 HVVCN20R	HVVCN29R		
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13. S0144: 11. S0142: 9.	H0580: 8, L0740: 6,	.0747: 6, H0445: 6,	H0090: 5, L0756: 5,	.0777: 5, S0360: 4,	H0591: 4, S0426: 4,	.0771: 4, L0766: 4,	.0776: 4, L0754: 4,	S0194: 4, H0341: 3,	S0376: 3, H0393: 3,	H0575: 3, H0538: 3,	H0144: 3, H0716: 2,	S0212: 2, H0637: 2,	H0331: 2, H0632: 2,	H0486: 2, H0590: 2,	H0046: 2, H0051: 2,	S0440: 2, H0509: 2,	C0783: 2, L0663: 2,	H0555: 2, L0748: 2,	.0439: 2, L0745: 2,	.0758: 2, L0362: 2,	H0170: 1, H0685: 1,	F0049: 1, H0177: 1,	S0442: 1, S0408: 1,	S0132: 1, S0476: 1,	S0300: 1, S6022: 1,	H0392: 1, H0537: 1,	H0438: 1, H0587: 1,	H0497: 1, H0270: 1,	r0060: 1, H0013: 1,
13.	HOS	107	00H	L07	SOH HOS	L07	107	S01	803	H05	H01		H03	H04	)HO	804	L:07	H05	<u>17</u>	[L07	H01	T00	804	S01	803	H03	H04	HOV	T00
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H0427: 1, L0021: 1,	H0581: 1, H0374: 1,	H0597: 1, H0544: 1,	H0546: 1, H0569: 1,	H0123: 1, L0471: 1,	H0012: 1, S0388: 1,	H0275: 1, H0375: 1,	H0286: 1, S0003: 1,	L0194: 1, T0006: 1,	H0644: 1, H0032: 1,	H0674: 1, H0361: 1,	S0036: 1, H0038: 1,	H0040: 1, H0551: 1,	H0413: 1, L0475: 1,	H0561: 1, S0438: 1,	H0131: 1, H0641: 1,	L0369: 1, L0762: 1,	L0637: 1, L0800: 1,	L0662: 1, L0649: 1,	L0388: 1, L0774: 1,	L0775: 1, L0651: 1,	L0653: 1, L0809: 1,	L0789: 1, L0666: 1,	L0665: 1, S0374: 1,	S0126: 1, H0435: 1,	H0659: 1, H0672: 1,	S0378: 1, H0518: 1,	S0392: 1, S3014: 1,	L0751: 1, L0779: 1,	L0780: 1, L0731: 1,
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L0759: 1, S0260: 1,	L0599: 1, S0026: 1, H0473: 1, S0412: 1 and	H0506: 1.			<i>:</i>									-			•	H0672: 2 and L0518: 1.			L		L0659: 55, H0644: 23,	L0748: 18, L0666: 17,	L0747: 17, H0622: 16, \$0194: 16, H0553: 15	יייי ייייייייייייייייייייייייייייייייי
					Gln-61 to Pro-68,	Gln-103 to Ala-108,	Tyr-111 to Thr-117.	Val-28 to Ser-33.	Lys-54 to Ala-67,	Arg-77 to Thr-86.		Ala-35 to Ala-41,	Pro-46 to Gly-54,	Pro-67 to Gly-87.	Ser-23 to Lys-30.	Glu-74 to Arg-79,	Glu-117 to Arg-134.	Arg-30 to Phe-36.			Arg-11 to Pro-17,	Ser-33 to Lys-46.	His-1 to Asn-8,	Arg-10 to Gly-16,	Tyr-50 to Gly-56.	
			4300	4301	4302			4303	4304		4305	4306			4307	4308		4309	4310	4311	4312		4313			
			2 - 460	3 - 212	2 - 352			170 - 334	3 - 404		2 - 442	3 - 449			11 - 184	3 - 605		10 - 144	1 - 630	105 - 335	35 - 217		237 - 698			
			2125	2126	2127			2128	2129		2130	2131			2132	2133		2134	2135	2136	2137		2138			
			HVVCN54 HVVCN54R	HVVCN66 HVVCN66R	HVVCO13 HVVCO13R			HVVC016R	HVVCO87 HVVCO87R		HVVCP41R	HVVCP88R		,	HVVCQ05R	HVVCQ49 HVVCQ49R		HVVCQ70 HVVCQ70R	HVVCQ93R	HVVCS28R			HVVCT54R			
			HVVCN54	HVVCN66	HVVC013			HVVC016	HVVCO87		HVVCP41	HVVCP88			HVVC005	HVVCQ49		HVVCQ70	HVVCQ93	HVVCS28	HVVCS32		HVVCT54			

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L0662: 15, S0126: 15,	L0740: 15, L0754: 14,	H0031: 13, H0593: 12,	L0649: 11, H0435: 11,	L0757: 11, H0124: 10,	S0250: 9, S0356: 8,	H0672: 7, L0362: 7,	L0779: 6, S0210: 5,	L0771: 5, L0663: 5,	L0664: 5, H0547: 5,	L0750: 5, L0601: 5,	S0360: 4, H0619: 4,	L0764: 4, L0804: 4,	L0775: 4, S0358: 3,	H0486: 3, H0628: 3,	H0264: 3, L0451: 3,	L0776: 3, L0655: 3,	L0783: 3, H0693: 3,	H0660: 3, S0454: 3,	L0749: 3, L0605: 3,	S0192: 3, H0170: 2,	H0294: 2, S0180: 2,	H0586: 2, H0013: 2,	H0687: 2, H0428: 2,	L0483: 2, H0488: 2,	S0450: 2, H0647: 2,	S0208: 2, L0648: 2,	L0523: 2, L0809: 2,	L0665: 2, H0144: 2,	L0565: 2, H0690: 2,
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H0518: 2,	\$3012: 2,	L0755: 2,	H0665: 2, H0171:	H0656: 1, S0212:	S0376: 1, S0410:	\$0132: 1,	L0717: 1, H0392: 1,	H0331: 1,	T0040: 1,	L0021: 1,	T0082: 1, H0618:	H0052: 1,	T0110: 1, H0046:	H0050: 1, L0471:	H0355: 1,	H0615: 1, H0039:	L0143: 1,	L0455: 1, S0366:	H0135: 1,	H0551: 1, H0100:	L0564: 1, H0509:	H0517: 1, L0763:	L0769: 1, 1	L0646: 1,	L0375: 1, L0784:	L0806: 1, 1	L0653: 1,	L0517: 1,	L0383: 1, L0647
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		lie-1 to Ser-6, Lys-13 to His-25.						•						
•	4314	4315												
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H0574: 1, H0635: 1, S0049: 1, H0052: 1, T0010: 1, H0288: 1, H0286: 1, H0553: 1, L0455: 1, L0351: 1, H0538: 1, L0763: 1, L0638: 1, L0775: 1, L0659: 1, L0783: 1, L0789: 1, L0663: 1, L0665: 1, H0690: 1, S0152: 1, L0740: 1,	L0747: 16, L0750: 15, L0752: 15, L0769: 9, L0757: 9, L0005: 8, L0775: 8, L0740: 8, L0774: 6, L0471: 5, H0656: 4, L0772: 4, L0731: 4, L0588: 4, H0657: 3, H0341: 3, H0638: 3, S0007: 3, S0046: 3, H0599: 3, L0783: 3, S0374: 3, H0660: 3, H0672: 3, L0783: 3, S0374: 3, H0660: 3, H0672: 3, L0783: 3, S0374: 3, H0660: 3, H0672: 3, H0660: 3, L0755: 3, H0352: 3, S0222: 2, H0441: 2, H0251: 2,
	Glu-32 to Lys-13, Glu-32 to Arg-56, Ser-60 to Thr-69.
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H0266: 2, T10672: 2, H0494: 2, L0761: 2, L0651: 2, L0518: 2, S0126: 2, H0670: 2,	S0328: 2, H0521: 2, S3012: 2, S0206: 2, L0745: 2, L0753: 2, L0759: 2, L0596:	25: 4, 18: 1, 10: 1,	51: 1, 06: 1, 56: 1, 8: 1,	33: 1, 22: 1, 74: 1,	56: 1, 56: 1, 56: 1,	81: 1, 97: 1, 45: 1,	12: 1;
1000 1007 1007 1005	H0520 S020 L075 L059	1, T0002: 1, S0218: 1, S0110: 1	1, H0661: 1, H0306: 1, S0356: 1 1, S0358: 1	H020 H039 H03'	1, T0039: 1, L0586: 1, H0156: 1, S0346: 1	H05 H05 H05 H05	1, H0012
H0266: 2, H0020: 2, H0266: 2, T0067: 2, H0494: 2, L0761: 2, L0651: 2, L0518: 2, S0126: 2, H0670: 2,	0328: 2, H0521: 2, 3012: 2, S0206: 2, 0745: 2, L0753: 2, 0759: 2, L0596: 2, 0769: 2, 10596: 2, 1	10008: 2, H0423: H0395: 1, T0002: H0685: 1, S0218: S0116: 1, S0110: 1	H0484: 1, H0661: H0663: 1, H0306: H0402: 1, S0356: 1 S0442: 1, S0358: 1	S0360: 1, H0208: 1 S0045: 1, H0393: 1 H0351: 1, H0392: H0333: 1, H0574:		H0318: 1, H0581: H0421: 1, H0597: H0546: 1, H0545: H0046: 1 H0041:	; -
H045 H045 L065 S012	S032 S301 L074 L075	H035 H068 H068 S011	H0484: H0663: H0402: S0442:	S0360: 1 S0045: 1 H0351: H0333:	L0623: 1 T0040: 1 H0250: H0575:	H042 H042 H054	H0081: 1
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H0023: 1. S0388: 1.	H0275: 1, H0356: 1,	S0023: 1, H0594: 1,	H0428: 1, H0428: 1,	H0535: 1, H0674: 1,	S0036: 1, H0135: 1,	H063: 1, H0413: 1,	H0056: 1, T0004: 1,	H0100: 1, T0042: 1,	H0334: 1, H0641: 1,	H0647: 1, S0144: 1,	4: 1, L0763: 1,	L0371: 1, L0637: 1,	74: 1, L0768: 1,	.0364: 1, L0376: 1,	0524: 1, L0632: 1,	.0655: 1, L0659: 1,	0782: 1, L0809: 1,	.0666: 1, L0663: 1,	10144: 1, L0565: 1,	91: 1, H0547: 1,	H0593: 1, H0690: 1,	H0684: 1, H0579: 1,	S0044: 1, H0631: 1,	8: 1, L0742: 1,	.0748: 1, L0746: 1,	S0031: 1, S0434: 1,	H0667: 1, S0192: 1,	S0276: 1, H0542: 1,	H0422: 1, H0506: 1 and
00H	H02	200S	H01	H05	2008	00H	00H	HOI	H03	90H	S0344: 1	103.	7.07	1036	105	700	1078	907	HOT	H0691:	H05	90H	700S	S0028: 1	7.07	2008	90H	205	H04
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L0600: 1.			L0794: 5, H0617: 4,	H0486: 3, L0800: 3, L0764: 3, H0672: 3.	L0751: 3, S0360: 2,	H0188: 2, S0022: 2,	L0769: 2, L0803: 2,	L0809: 2, L0665: 2,	L0361: 2, H0556: 1,	H0583: 1, H0657: 1,	S0418: 1, L0005: 1,	S0354: 1, S0408: 1,	S0045: 1, S0046: 1,	S6014: 1, H0587: 1,	H0333: 1, H0559: 1,	H0596: 1, H0673: 1,	H0616: 1, H0494: 1,	L0761: 1, L0662: 1,	L0651: 1, L0659: 1,	L0382: 1, L5622: 1,	L0663: 1, H0690: 1,	H0670: 1, S0152: 1,	S0390: 1, L0747: 1,	L0777: 1, L0731: 1,	L0758: 1, S0436: 1,
	Glu-1 to Gln-10, Val-74 to Arg-83.	Pro-12 to Ser-18, Pro-25 to Pro-30, Ala-62 to Ser-70.	Met-22 to Asp-27,	Cys-43 to 1 rp-50, Asp-79 to Trp-93.	Glu-124 to Glu-136.																				
	4317	4318	4319		٠																				
	2 - 310	2 - 244	3 - 410																						
	2142	2143	2144																						
	HVVCV41R	HVVCV68R	HVVCW75 HVVCW75R	,																					
	HVVCV41	HVVCV68	HVVCW75																						

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L0592: 1, L0601: 1 and	S0424: 1.	H0052; 15, H0585; 12,   0740; 12, L0439; 11,	L0758: 10, L0754: 9,	L5286: 8, L0748: 8,	H0141: 7, L0666: 7,	H0521: 7, L0742: 7,	L0749: 7, H0556: 6,	S0222: 6, H0494: 6,	L0743: 6, L0751: 6,	L0757: 6, H0253: 5,	T0010: 5, L0803: 5,	L0731: 5, H0657: 4,	S0360: 4, S0408: 4,	S0046: 4, S0278: 4,	H0618: 4, S0049: 4,	H0617: 4, H0623: 4,	S0038: 4, L0764: 4,	L0766: 4, L0805: 4,	L0809: 4, L0744: 4,	L0746: 4, S0040: 3,	S0212: 3, L0005: 3,	H0441: 3, H0333: 3,	H0013: 3, H0599: 3,	H0009: 3, H0242: 3,	H0644: 3, H0038: 3,	H0551: 3, H0412: 3,	T0042: 3, L0769: 3,	L0804: 3, L0774: 3,
	5	Asp-1 to Pro-10.						-			•						,		-			-						
	1	4320												•														
		124 - 297						-									•				•							
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		HVVCX17 HVVCX17R						٠.													,							
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0776: 3. 1.0792: 3.	.0663: 3, L0438: 3,	S0044: 3, S0406: 3,	S0028: 3, L0745: 3,	.0779: 3, L0752: 3,	.0362: 3, S6024: 2,	H0733: 2, S0132: 2,	H0261: 2, H0455: 2,	H0438: 2, H0497: 2,	H0041: 2, L0471: 2,	H0620: 2, H0024: 2,	H0051: 2, H0266: 2,	H0284: 2, S0250: 2,	F0006: 2, S0366: 2,	S0036: 2, H0591: 2,	S0344: 2, L0369: 2,	: 2, L0791: 2,	.0665: 2, S0374: 2,	H0520: 2, S0126: 2,	H0672: 2, H0436: 2,	.0741: 2, L0747: 2,	.0750: 2, L.0756: 2,	.0759: 2, S0436: 2,	: 2, L0592: 2,	: 2, L0608: 2,	.0593: 2, L0595: 2,	H0667: 2, H0423: 2,	.0718: 2, H0149: 1,	H0265: 1, H0139: 1,	: 1, S0114: 1,
1,0776	10663	S0044	S0028	L0779	L0362	H0733	H0261	H0438	H0041	H0620	H0051	H0284	T0006	S0036	S0344	L5623	T0665	H0520	H0672	L0741	L0750	L0759	L0591: 2, 1	L0485: 2, ]	L0593	H0667	L0718	H0265	H0716: 1,
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F0049: 1, S0218: 1,	H0341: 1, S0001: 1,	H0484: 1, H0483: 1,	H0254: 1, H0255: 1,	10662: 1, H0306: 1,	H0638: 1, S0418: 1,	S0420: 1, S0356: 1,	S0442: 1, S0358: 1,	S0444: 1, H0637: 1,	S0007: 1, S0045: 1,	S0476: 1, H0619: 1,	H0393: 1, S6026: 1,	.0717: 1, H0370: 1,	H0586: 1, H0587: 1,	H0574: 1, T0040: 1,	H0069: 1, S0280: 1,	H0036: 1, S0010: 1,	H0390: 1, H0318: 1,	H0581: 1, H0234: 1,	T0103: 1, H0546: 1,	10545: 1, H0046: 1,	V0006: 1, H0569: 1,	H0081: 1, H0050: 1,	H0047: 1, N0008: 1,	S0388: 1, H0107: 1,	H0083: 1, H0375: 1,	H0188: 1, H0428: 1,	H0039: 1, H0424: 1,	H0213: 1, L0142: 1,	H0181: 1, H0606: 1,
TO	)HO	)HO	HO	)H	)H	<u>S</u>	<u>S0</u>	<u>S</u>	<u>80</u>	<u>80</u>	)H	<u> </u>	)H	H	HC	HC	HC	HC	TO	HC	<u>N</u>	HC	HC	<u>S</u>	)H	H	HC	)H	HC
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H0674: 1, H0135: 1.	H0040: 1 H0616: 1	 H0488: 1, H0268: 1,	1,	L0351: 1, H0334: 1,	H0633: 1, S0142: 1,	H0538: 1, S0426: 1,	L0640: 1, L0637: 1,	L5575: 1, L0800: 1,	L0648: 1, L0794: 1,	L0655: 1, L0657: 1,	L0659: 1, L0542: 1,	L0783: 1, L0382: 1,	L5622: 1, H0144: 1,	H0723: 1, H0519: 1,	H0690: 1, H0435: 1,	Ţ,	S0454: 1, S0404: 1,	H0555: 1, S3014: 1,	L0780: 1, L0755: 1,	H0445: 1, H0595: 1,	S0434: 1, L0588: 1,	L0605: 1, L0366: 1,	·î	H0506: 1 and H0008: 1.		·
																		-							Arg-9 to Ile-31,	Gln-38 to Lys-43, Gln-87 to Ala-92,
																	,								4321	
					-																			·	35 - 418	
							•													<del></del>					2146	
	,																					-			HVVCX46 HVVCX46R	
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																			,							H0412: 26, S0360: 11,	S0126: 8, H0014: 7,	HU028: 6, HU413: 0,
Ser-116 to Pro-128.	Ser-8 to Ser-14,	Asn-68 to Tyr-74,	His-80 to Val-91,	Glu-141 to Phe-147,	Ala-159 to Ser-170,	Asp-184 to Gly-199.	Pro-60 to Gly-72,	Gln-89 to Ser-94,	Pro-121 to Pro-132,	Pro-146 to Pro-166.	Lys-30 to Glu-36,	Lys-55 to Tyr-68,	Ile-82 to Asp-87,	Trp-115 to Ser-125,	Pro-139 to Pro-146.	Ala-17 to Lys-23,	Leu-25 to Ala-35,	Gln-71 to Ala-76,	Tyr-79 to His-85,	Pro-112 to Gly-120,	Gly-149 to Tyr-165,	Lys-175 to His-181.		Glu-179 to Ala-184.		-	•	
	4322						4323				4324					4325							4326	4327	4328	4329		
	2-775						2 - 697		*		1 - 588					3 - 620							139 - 276	2 - 598	423 - 542	139 - 291		
	2147		- **				2148				2149					2150							2151	2152	2153	2154		
	HVVCY29R						HVVCY55R				HVVCY60 HVVCY60R				•	HVVCY62R		•					HVVCY75 HVVCY75R	HVVCY77 HVVCY77R	HVVCZ18R	HVVCZ50 HVVCZ50R		
	HVVCY29						HVVCY55				HVVCY 60					HVVCY 62					-		HVVCY75	HVVCY77	HVVCZ18	HVVCZ50		

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S0212: 5, S0045: 5,	H0411: 5, H0486: 4,	S0003: 4, S0210: 4,	H0672: 4, L0731: 4,	S0192: 4, S0418: 3,	S0046: 3, H0169: 3,	.0649: 3, S0040: 2,	H0671: 2, H0662: 2,	S0358: 2, S0376: 2,	S0132: 2, H0635: 2,	H0098: 2, H0544: 2,	H0546: 2, H0545: 2,	H0242: 2, H0015: 2,	S0250: 2, H0551: 2,	H0268: 2, H0494: 2,	.0659: 2, L0517: 2,	.0809: 2, H0689: 2,	S0028: 2, H0506: 2,	H0170: 1, H0171: 1,	H0295: 1, H0661: 1,	H0639: 1, H0574: 1,	10599: 1, L0022: 1,	H0108: 1, H0042: 1,	H0004: 1, H0044: 1,	H0355: 1, H0510: 1,	H0266: 1, S0318: 1,	S0316: 1, S0022: 1,	H0328: 1, H0039: 1,	H0622: 1, H0634: 1,	H0488: 1, H0623: 1,
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L0564: 1, H0509: 1, L0764: 1, L0662: 1, L0653: 1, H0144: 1, S0374: 1, L0565: 1, H0670: 1, S0380: 1, H0518: 1, H0555: 1, L0748: 1, L0740: 1, L0751: 1, L0754: 1, L0749: 1, L0777: 1, L0749: 1, L0777: 1,	L0777: 17, L0439: 13, L0731: 9, H0521: 8, S0003: 5, H0547: 5, L0759: 5, L0803: 4, L0748: 4, L0750: 4, L0752: 4, L0351: 3, H0560: 3, L0751: 3, L0749: 3, L0757: 3, H0543: 3, S0134: 2, L0415: 2, S0116: 2, S0358: 2, S0376: 2, H0318: 2, H0581: 2, H0421: 2, H0581: 2, H0662: 2, L0768: 2, L0662: 2, L0768: 2, L0766: 2, S0328: 2, H0215: 2, S0406: 2, L0744: 2, L0608: 2,	S0192: 2, H0170: 1, H0171: 1, H0556: 1,
	4330	
	161 - 313	
	2155	
	HVVDC09R	
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713: 1,	661: 1,	360: 1,	580: 1,	519: 1,	322: 1,	013: 1,	I, H0097: 1,	1, T0110: 1,	471: 1,	687: 1,	14: 1,	023: 1,	551: 1,	494: 1,	352: 1,	533: 1,	538: 1,	126: 1,	L0500: 1,	537: 1,	764: 1,	L0774: 1,	L0375: 1,	L0805: 1,	L0659: 1,	L0666: 1,	565: 1,	48: 1,	519: 1,
H0222: 1, H0713:	.0420: 1, H0661:	H0663: 1, S0360:	S0410: 1, H0580:	1, H0619:	H0351: 1, S6022:		: 1, HO	: 1, TO	: 1, LO	H0266: 1, H0687:	S0250: 1, S0214:	H0428: 1, T0023:	H0628: 1, H0551:	H0412: 1, H0494:	H0366: 1, S0352:	30440: 1, H0633:	H0646: 1, H0538:	30422: 1, S0426:	1, 10	L0770: 1, L0637: 1	1, LO			•	· 📑	1, LO	.0664: 1, L0665:	S0374: 1, S0148:	H0520: 1, H0519:
H0222	L0420	H0663	S0410	S0007: 1	H0351	H0587:	H0427: 1	H0052:	H0231:	H0266	S0250	H0428	H0628	H0412	H0366	S0440	H0646	S0422	L0369: 1, I	L0770	L0642	L0381: 1	1.0775: 1	L0806: 1	L0654: 1, 1	L0783: 1, ]	L0664	S0374	H0520
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H0593: 1, S0126: 1, H0660: 1, H0648: 1, H0672: 1, S0330: 1, H0539: 1, S0152: 1, S0037: 1, L0747: 1, L0605: 1, S0011: 1, H0423: 1, H0422: 1 and				L0742: 10, H0144: 6,	H0265: 5, S0116: 4,	S0046: 4, S0222: 4,	H0556: 3, H0250: 3,	H0052: 3, S0027: 3,	L0595: 3, S0212: 2,	H0306: 2, S0358: 2,	H0013: 2, H0618: 2,	H0124: 2, H0100: 2,	S0053: 2, H0660: 2,	S0330: 2, S3012: 2,	L0748: 2, L0439: 2,	L0745: 2, L0757: 2,	H0445: 2, S0342: 1,	H0484: 1, H0638: 1,	S0007: 1, H0393: 1,	H0437: 1, H0549: 1,	H0438: 1, H0486: 1,	H0253: 1, H0390: 1,
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	4331	4332	4333	4334																		
	2 - 580	3 - 545	3 - 446	1 - 390												·	*					
	2156	2157	2158	2159		,																
·	HVVDH44R	HVVDM23 HVVDM23R	HVVDM31 HVVDM31R	HVVDM45 HVVDM45R							•		,									
	HVVDH44	HVVDM23	HVVDM31	HVVDM45																		

H0544: 1, H0046: 1, H0009: 1, H0023: 1, N0007: 1, T0010: 1, H0188: 1, H0687: 1, S0003: 1, H0030: 1, S0364: 1, L0455: 1, S0366: 1, H0090: 1, H0038: 1, H0551: 1, H0412: 1, H0059: 1, S0038: 1, H0130: 1,	S0002: 1, H0517: 1, L0643: 1, L0771: 1, L0794: 1, L0766: 1, L0655: 1, L0654: 1, L0655: 1, L0352: 1, S0008: 1, H0435: 1, H0659: 1, H0658: 1, H0672: 1, H0521: 1, H0572: 1, S0044: 1, H0576: 1, L0779: 1, L0605: 1, L0593: 1, S0026: 1, H0667: 1,	H0542: 1, H0423: 1 and H0506: 1. L0766: 9, L0665: 7, L0659: 6, L0761: 5, L0662: 4, L0776: 4,
		4335
		2 - 241
		2160
		HVVDM53 HVVDM53R HVVDM83 HVVDM83R
		HVVDM53 HVVDM83

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S0418: 3, S0007: 3,	H0559: 3, H0457: 3,	H0617: 3, L0800: 3,	L0751: 3, L0750: 3,	H0309: 2, L0769: 2,	L0667: 2, L0794: 2,	L0664: 2, L0756: 2,	L0779: 2, L0777: 2,	L0758: 2, H0543: 2,	H0556: 1, S0402: 1,	S0114: 1, H0650: 1,	H0656: 1, S0116: 1,	H0484: 1, H0254: 1,	H0255: 1, S0420: 1,	S0354: 1, S0358: 1,	H0676: 1, L0717: 1,	S0222: 1, H0614: 1,	L0622: 1, H0486: 1,	H0069: 1, H0253: 1,	H0581: 1, H0024: 1,	H0051: 1, H0100: 1,	H0494: 1, H0625: 1,	H0561: 1, S0144: 1,	L0374: 1, L0771: 1,	L0773: 1, L0768: 1,	L0387: 1, L0774: 1,	L0653: 1, L0657: 1,	L0384: 1, L0789: 1,	L0790: 1, L0792: 1,	H0684: 1, H0659: 1,
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H0670: 1, H0672: 1,	L0741: 1, L0754: 1,	L0749: 1, L0780: 1,	H0422: 1 and H0352: 1.			170		H0551: 9, L0662: 9,	L0471: 8, L0754: 7,	L0766: 6, L0666: 6,	S0358: 5, L0663: 5,	L0750: 5, L0779: 5,	S0007: 4, H0373: 4,	L0770: 4, L0803: 4,	L0777: 4, L0752: 4,	L0757: 4, L0758: 4,	S0114: 3, S0212: 3,	H0673: 3, H0412: 3,	L0769: 3, L0805: 3,	L0776: 3, L0809: 3,	S0126: 3, L0740: 3,	H0506: 3, H0657: 2,	S0116: 2, S0356: 2,	S0360: 2, H0411: 2,	H0390: 2, H0318: 2,	S0214: 2, H0644: 2,	H0617: 2, H0494: 2,
				Asp-50 to Gly-55.		Lys-24 to Glu-34,	Pro-47 to Arg-56, Tyr-77 to Pro-90.	Lys-12 to Thr-18,	Glu-20 to Lys-26,	Lys-83 to Lys-90.	•														,		
				4337	4338	4339		4340				•.															
				2-685	1 - 594	40 - 354		106 - 423																			
			,	2162	2163	2164		2165																			
		,		HVVDN29R	HVVDN77 HVVDN77R	HVVDP70 HVVDP70R		HVVDO46 HVVDO46R												-							
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.0761: 2, L0773: 2.	.0649: 2, L	.0653: 2, L0529: 2	H0435: 2, L0749: 2,	.0731: 2, L0588: 2,	.0608: 2, S0026: 2,	H0543: 2, H0294: 1	10650: 1, H	\$0354: 1, \$0376: 1,	10580: 1, H	H0208: 1, S0132:	H0640: 1, H0369:	10438: 1, H0574:	H0486: 1, H0101: 1	[0427: 1, H	H0575: 1, H0037:	H0230: 1, H0052:	.0040: 1, H0544:	H0545: 1, H0086:	H0009: 1, S0024:	H0510: 1, S0250: 1	[0428: 1, H	H0102: 1, H0560:	S0294: 1, H0509:	S0150: 1, H0633:	H0647: 1, L0631:	.0646: 1, L0764:	.0804: 1, L0806:	.0606: 1, L0657: 1	.0659: 1, L
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H0268: 2, H0494: 2,	H0509: 2, H0647: 2,	.5565: 2, L0645: 2,	.0764: 2, L0666: 2,	.0665: 2, H0520: 2,	H0689: 2, H0658: 2,	S0152: 2, S0406: 2,	S3014: 2, L0439: 2,	.0751: 2, L0754: 2,	.0750: 2, L0758: 2,	S0434: 2, L0596: 2,	.0581: 2, L0595: 2,	.0601: 2, S6024: 1,	H0294: 1, H0657: 1,	H0656: 1, L0415: 1,	H0669: 1, H0671: 1,	80356: 1, 80354: 1,	50360: 1, S0410: 1,	H0340: 1, S0476: 1,	S0278: 1, H0549: 1,	H0550: 1, H0370: 1,	H0587: 1, H0497: 1,	H0643: 1, H0257: 1,	H0318: 1, H0457: 1,	H0041: 1, H0123: 1,	H0024: 1, H0071: 1,	H0375: 1, H0290: 1,	H0292: 1, H0428: 1,	.0142: 1, S0036: 1,	H0063: 1, H0087: 1,
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H0264: 1, H0059: 1,	_	S0450: 1, S0440: 1,	H0646: 1, S0144: 1,	S0002: 1, L0762: 1,	.0640: 1, L0639: 1,	.0637: 1, L0372: 1,	.0643: 1, L0771: 1,	,0773: 1, L.0648: 1,	.0386: 1, L0774: 1,	.0775: 1, L0375: 1,	.0376: 1, L0378: 1,	<del>_</del>	.0776: 1, L0782: 1,	.0383: 1, L0791: 1,	H0693: 1, H0547: 1,	H0519: 1, H0435: 1,	10660: 1, H0672: 1,	S0330: 1, H0696: 1,	H0134: 1, H0478: 1,	S0028: 1, L0743: 1,	.0745: 1, L.0747: 1,	.0749: 1, L0731: 1,	S0436: 1, L0593: 1,		H0423: 1 and H0352: 1.		AR104: 17, AR089:	10, AR096: 10, AR061:	8, AR060: 4, AR055:
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4	S0412: 22, L0662: 19,	S0222: 9, S6028: 9,	L0750: 9, T0010: 8,	L0659: 8, L0747: 8,	L0756: 8, L0663: 7,	L0439: 7, H0051: 6,	L0518: 6, L0754: 6,	L0752: 6, S0280: 5,	H0575: 5, S0358: 4,	S0346: 4, L0753: 4,	H0170: 3, H0662: 3,	S0360: 3, H0427: 3,	L0471: 3, H0373: 3,	L0638: 3, L0637: 3,	L0764: 3, L0774: 3,	L0809: 3, L0666: 3,	S0310: 3, H0672: 3,	H0696: 3, L0731: 3,	H0506: 3, H0713: 2,	S0408: 2, H0411: 2,	H0455: 2, H0574: 2,	S0414: 2, H0486: 2,	H0036: 2, S0049: 2,	H0687: 2, H0428: 2,	H0553: 2, H0644: 2,	H0038: 2, L0520: 2,
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L0762: 2, L0770: 2, L0653: 2, L0517: 2,	S0044: 2, L0442: 1,	H0583: 1, L0443: 1,	\$0110: 1, \$0282: 1,	<del>, آب</del>	<u> </u>	S0444: 1, H0329: 1,	S0007: 1, H0619: 1,	S6026: 1, S0300: 1,	L0717: 1, S6022: 1,	H0550: 1, H0592: 1,	H0587: 1, H0599: 1,	H0042: 1, H0590: 1,	H03·18: 1, H0309: 1,	H0545: 1, H0563: 1,	H0564: 1, H0123: 1,	H0019: 1, S0050: 1,	L0163: 1, S0388: 1,	H0356: 1, H0328: 1,	H0688: 1, H0039: 1,	T0023: 1, H0031: 1,	H0111: 1, H0169: 1,	S0364: 1, L0455: 1,	H0135: 1, H0163: 1,	T0067: 1, T0069: 1,	T0004: 1, H0100: 1,	S0112: 1, L0370: 1,	L0598: 1, L0769: 1,	L0630: 1, L0800: 1,
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L0648: 1, L0363: 1,	L0768: 1, L0649: 1, .	L0803: 1, L0775: 1,	L0375: 1, L0651: 1,	L0784: 1, L0523: 1,	L0805: 1, L0776: 1,	L0527: 1, L0657: 1,	L0635: 1, L0783: 1,	L0789: 1, L0532: 1,	L0664: 1, H0691: 1,	T0068: 1, S0148: 1,	H0693: 1, H0520: 1,	H0593: 1, H0689: 1,	H0684: 1, S0330: 1,	S0380: 1, S0174: 1,	H0555: 1, L0612: 1,	L0743: 1, L0748: 1,	L0751: 1, L0749: 1,	L0779: 1, L0759: 1,	L0689: 1, S0434: 1,	L0604: 1, L0366: 1,	S0106: 1 and S0021: 1.					
																									,	4345 Thr-35 to Asn-41.
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	L0748: 11, L0758: 10,	L0747: 8, L0439: 7,	H0144: 6, L0805: 5,	L0662: 4, H0341: 3,	H0052: 3, L0794: 3,	L0803: 3, L0809: 3,	H0672: 3, L0741: 3,	L0752: 3, H0619: 2,	S0222: 2, H0013: 2,	H0014: 2, H0266: 2,	H0553: 2, L0455: 2,	H0591: 2, L0770: 2,	1.0646: 2, 1.0764: 2,	L0666: 2, L0665: 2,	H0547: 2, S0126: 2,	L0596: 2, L0589: 2,	L0605: 2, H0543: 2,	H0423: 2, H0624: 1,	H0556: 1, H0686: 1,	S0040: 1, H0717: 1,	H0671: 1, S0476: 1,	L0717: 1, H0411: 1,	H0586: 1, H0333: 1,	H0574: 1, L0021: 1,	H0575: 1, H0618: 1,	S0010: 1, H0318: 1,	H0544: 1, H0009: 1,	H0050: 1, L0471: 1,	L0163: 1, S6028: 1,
	Glu-11 to Arg-17,	Arg-66 to Pro-79,	Ser-104 to Gln-112,	Ser-116 to Ser-125.				•			-"								-			·							
4346	4347													•						•									
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2171	2172	-																											
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80022: 1, 80214: 1,	H0628: 1, L0456: 1,	S0366: 1, S0036: 1,	H0090: 1, H0038: 1,	H0040: 1, H0551: 1,	H0264: 1, H0059: 1,	S0112: 1, T0041: 1,	H0647: 1, H0652: 1,	S0426: 1, L0763: 1,	L0638: 1, L0796: 1,	L0630: 1, L0768: 1,	L0649: 1, L0774: 1,	<u> </u>	L0657: 1, L0659: 1,	 <u>_</u>	L0664: 1, S0053: 1,	H0519: 1, H0539: 1,	H0696: 1, S0406: 1,	H0555: 1, H0627: 1,	L0744: 1, L0754: 1,	L0746: 1, L0759: 1,	S0031: 1, L0584: 1,	L0608: 1. L0594: 1.	S0026: 1. H0665: 1.	H0136: 1, H0216: 1 and	H0422. 1		H0672: 2 and S6028: 1.
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						L0766: 3, H0651: 2, H0686: 1, H0656: 1, S0358: 1, L0773: 1, L0775: 1, L0657: 1, L0809: 1, L0792: 1 and L0731: 1.	S0152: 7, L0601: 4, H0013: 3, H0551: 3, H0264: 3, H0521: 3, S0046: 2, H0050: 2, H0266: 2, S0022: 2, H0031: 2, H0644: 2, H0494: 2, H0519: 2, H0556: 1, S0040: 1, T0049: 1, S0040: 1, S0356: 1, S0354: 1, S0376: 1, S0354: 1,
	Ser-1 to Pro-9.						Lys-1 to Asp-8, Lys-41 to Gln-50.
4349	4350	4351	4352	4353	4354	4355	4356
3 - 266	2 - 502	294 - 455	14 - 511	2 - 391	11 - 178	167 - 343	3 - 197
2174	2175	2176	2177	2178	2179	2180	2181
HVVDW02 HVVDW02R	HVVDW61R	HVVDX40 HVVDX40R	HVVDX90R	HWHHD07 HWHHD07R	HWLAC51 HWLAC51R		HWLME48 HWLME48R
HVVDW02	HVVDW61	HVVDX40	HVVDX90	HWHHD07	HWLAC51	HWLJR51	HWLME48

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H0550: 1, H0486: 1,	T0039: 1, T0040: 1, S0280: 1, H0042: 1,	-	H0421: 1, L0471: 1, H0373: 1. H0051: 1.	H0355: 1, H0615: 1,	H0622: 1, L0483: 1,	S0364: 1, H0591: 1,	H0268: 1, H0561: 1,	S0210: 1, L0364: 1,	L0649: 1, L0538: 1,	L0659: 1, S0428: 1,	H0144: 1. L0602: 1.	S0390: 1, S0028: 1.	L0485: 1 and H0543: 1.											
								-	٠						•				Cys-6 to Ser-12,	Gln-27 to Glu-32,	Arg-52 to Arg-67,	Asp-140 to Asp-	145.	Thr-26 to Ile-34.
						7												4357	4358					4359
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[0040] The first column in Table 1 provides a unique "Clone ID NO:Z" for a cDNA clone related to each contig sequence disclosed in Table 1. This clone ID references the cDNA clone which contains at least the 5' most sequence of the assembled contig, and at least a portion of SEQ ID NO:X was determined by directly sequencing the referenced clone. The reference clone may have more sequence than described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDNA can be obtained by methods known in the art and/or as described elsewhere herein.

[0041] The second column in Table 1 provides a unique "Contig ID" identification for each contig sequence. The third column provides the "SEQ ID NO:X" identifier for each of the ovarian associated contig polynucleotide sequences disclosed in Table 1. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1, column 5, as SEQ ID NO:Y. Where the nucleotide position number "To" is lower than the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced polynucleotide sequence.

[0042] The fifth column in Table 1 provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 4. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and the complementary strand thereto.

[0043] Column 6 in Table 1 lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In specific embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table 1. It

will be appreciated that depending on the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly.

Column 7 in Table 1 provides an expression profile and library code: count [0044] for each of the contig sequences (SEQ ID NO:X) disclosed in Table 1, which can routinely be combined with the information provided in Table 4 and used to determine the normal or diseased tissues, cells, and/or cell line libraries which predominantly express the polynucleotides of the invention. The first number in column 7 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon) represents the number of times a sequence corresponding to the reference polynucleotide sequence was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of <sup>33</sup>P dCTP. using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. The sequences disclosed herein have been determined to be

predominantly expressed in ovarian tissues, including normal and diseased ovarian tissues (See Table 1, column 7 and Table 4).

[0045] Column 8 in Table 1 provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a whole. Thus, it is possible to infer the chromosomal location of a new polynucleotide sequence by determining its identity with a mapped UniGene cluster.

[0046] A modified version of the computer program BLASTN (Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same UniGene cluster, and mapping data was available for this cluster, it is indicated in Table 1 under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is disclosed.

[0047] Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIM<sup>TM</sup> (supra). If the putative chromosomal location of a polynucleotide of the invention (Query sequence) was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 9, Table 1, labeled "OMIM Disease Reference(s)". Table 5 is a key to the OMIM reference identification numbers (column 1), and provides a description of the associated disease in Column 2.

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Clone ID	Contig ID:	SEQ	Analysis	PFam/NR Description	PFam/NR Accession	Score/	NT	NT To
NO:Z		e ö ×	Method		Number	Percent Identity	From	
HOVCD34	396327	11	blastx.2	(AK000844) unnamed protein product [Homo sapiens]	dbj BAA91396.1	28%	319	167
HEBGD58	498281	12	blastx.2	eggshell protein - fluke (Schistosoma haematobium) (subclone 1	pir A44805 A44805	74%	£ .	86
HETCD42	533532	13	blastx.2	actin capping protein alpha subunit [Homo sapiens]	gb AAA88848.1	100%	06	. 947
HTXKC18	535854	14	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	62%	873	929
HLDRK20	553765	15	blastx.2	complement factor B [Homo sapiens]	emb[CAA51389.1	%16	150	1283
Н2МВD33	558474	16	blastx.2	NBR2 PROTEIN (NEXT TO BRCA1 GENE 2 PROTEIN).	sp 015453 NBR2_H UMAN	100%	138	290
HSYBX61	558708	17	blastx.2	N-cadherin [Homo sapiens]	gb AAA03236.1	%86	3	515
HELHC03	562745	18	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF1 18094_21	67% 81%	1063 1154	905
HOFMP70	585385	19	blastx.2	precursor polypeptide	emb CAA33261.1	<b>%</b> 5 <i>L</i>	120	347

		686	<b>L89</b>	746		466	498	393	434	434	431	434	431	431	431	431	431	431	431	431	431	431	431	434	431	431	431
		522	19	681		2	463	133	117	192	189	12	192	195	192	156	189	156	195	195	192	15	192	195	192	15	195
		. 63%	%66	%06		100%	91%	100%	100%	20%	51%	40%	51%	52%	53%	47%	54%	46%	52%	47%	48%	38%	48%	20%	46%	37%	46%
		gb[AAA88038.1]	gb[AAA59491.1]			gb AAD34121.1 AF1	51884 1	gb AAD02337.1	gb[AAC33512.1]																	,	
(AA -21 to 782) [Homo	sapiens]	unknown protein [Homo sapiens]	leukocyte adhesion	glycoprotein precursor	[Homo sapiens]	(AF151884) CGI-126	protein [Homo sapiens]	(AF044671) MM46	(AF019406) collagen	type IX alpha 2 chain	[Homo sapiens]	1	•														
		blastx.2	blastx.2			blastx.2		blastx.2	blastx.2								•		_ <del>-</del>							:	
		20	21			22		23	.24																		
		285675	698885	  -  -  -  -		638220		654868	704405	1																	
		HSKNZ25	HDPFK39			HL1AB07		HHGAS83	HTSG1337	}	,																

431	431	431	431	431	431	434	425	461	434	413	395	365	431	347	205	490	481	472	481	481	481	481	481	502	487	457	432	218	133
195	201	24	189	189	180	195	192	195	195	195	45	192	195	192	395	395	383	401	401	383	395	383	383	380	422	419	331	430	249
48%	20%	37%	48%	48%	44%	46%	43%	40%	43%	48%	34%	44%	36%	47%	47%	26%	44%	52%	46%	38%	43%	40%	38%	33%	47%	61%	767	25%	37%
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100	418	421	199	563	580	1007	547	1008	1008	846	232	70	627	367	440	497	778			
240	471	501	14	402	101	585	149	619	619	775	969	229	902	122	348	12	200			
38%	20%	32%	64%	87%	%56	92%	51%	35%	32%	38%	73%	77%	.63%	%68	%0 <i>L</i>	81%	%98			
			emb CAB42187.1	emb CAA57432.1	emb[C 4 4 90511 11						gb AAA88038.1			gb AAC78561.1		emb CAA45263.1				
			unnamed protein product [unidentified]	fusion protein: ubiquitin (bases 43_513); ribosomal protein S27a (bases 217_532) [Rattus	trecine Finese	activator protein 1	(TKA-1) [Homo	sapiens	1		unknown protein	[Homo sapiens]		(AF046001) zinc finger	transcription factor [Homo sapiens]	cytochrome oxidase	subunit III [Phoca vitulina]		,	
			blastx.2	blastx.2	Flooty 2	oranio.					blastx.2			blastx.2		blastx.2		-		
			25	56	27	ì			-		28			29		30				
			705692	711500	720240	71.0701		,			745343			746416		762806				
			H2LAN34	HPMBZ40	thr VED62	20 13 1 THE					HTTEC47			HOFMO90		HCHIND34				

 		,	<u> </u>														
 609 667	631	812 55		632	576		1867	1867	458	417	281	396	419	628	694		418
424 - 611	386	42		808	644		8	8	45	193	159	268	375	328	74		41
91%	%08	87%		%/9	45%	•	%96	82%	100%	%06	63%	34%	53%	%88	%66		70%
emb CAB42212.1	dbj BAB29387.1	gb AAA36470.1		gb AAB26149.1			gb AAD34036.1 AF1	51799_1	emb CAA61761.1	gb AAA61243.1				gb AAA60120.1	gb AAA59594.1		emb CAA55204.1
unnamed protein product [unidentified]	(AK014485) putative [Mus musculus]	acidic ribosomal phosphoprotein (P0)	[Homo sapiens]	X-linked retinopathy	protein [C-terminal, clone XEH.8c] [human,	Feptide Fartial, 100 aaj [Homo sapiens]	(AF151799) CGI-40	protein [Homo sapiens]	rTSbeta [Homo sapiens]	tyrosine kinase receptor	[Homo sapiens]			pericentriol material 1 [Homo saniens]	O-6-methylguanine-	DNA methyltransferase	ribosomal protein L22
blastx.2	blastx.2	blastx.2		blastx.2			blastx.2		blastx.2	blastx.2				blastx.2	blastx.2		blastx.2
31	32	33		34		,	35		36	37				38	39		9
785328	794213	806819		824886			828176		828574	828862		٠		828872	829298	·	829958
HAMGI86	HLWCN67	HOFAC09		HRDEL61			HDPOR60		HPRTS71	HOHBI90				HOHAL47	HYASE58		HKAAH95

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	168	610	132	170	611	1525	1785	1255	1114	1033	991	886	934	1096	868	973	826	892	712	712	1150	973	946	200	991	289	589
: .	44	119	<u></u>	9	573	2	1525	20	20	20	17	20	17	20	∞	7	14	70	17	70	365	20	413	Π	2	70	17
	%96	82%	93%	37%	76%	%66	100%	767	79%	30%	27%	73%	. 28%	25%	27%	78%	78%	27%	78%	73%	24%	24%	32%	73%	24%	30%	32%
	gb AAA20506.1	gb AAB23369.1				gb AAB47488.1 AAB	47488																				
[Rattus norvegicus]	activating transcription factor 3 [Homo sapiens]	heat shock protein 90,	hsp90 [rats, brain,	Peptide, 724 aa] [Rattus	sp.]	tenascin X [Homo	sapiens													-							
	blastx.2	blastx.2				blastx.2							,						1							•	
	41	42				43																					
	829981	830195				830497					•																
	HTT1Q02	HWACG9	-			HUFBX52													-						-		

712	601	826	1111	1012	295	1096	595	1135	1045	1096	1231	1141	1111	1153	1309	1135	1117	1021	604	1690	1096	1684	1135	1309	1684	877	331	1045	1684
20	20	7	716	176	176	437	92	521	437	434	488	860	557	098	557	809	641	437	437	1487	557	1487	788	809	1487	638	35	455	1487
767	27%	27%	31%	72%	30%	25%	73%	72%	23%	23%	70%	25%	22%	25%	24%	78%	70%	27%	39%	36%	27%	78%	23%	22%	30%	33%	73%	23%	28%
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1684	825	1684	1690	1684	1690	501	1190	1150	1142	404	498	1663	1181	1181	1027	1436	1118	257	255	1083	1146	480	1175	315	357	181	266	1305
1487	622	1487	1556	1487	1487	316	1110	962	1101	267	52	1607	1089	1089	650	1398	1089	189	118	626	1024	361	1050	46	175	143	134	1018
27%	30%	25%	37%	28%	23%	27%	48%	30%	64%	32%	. 56%	25%	32%	32%	22%	53%	%09	41%	29%	37%	29%	35%	34%	%86	100%	95%	100%	%26
													-											gb AAA35886.1	emb CAA28169.1	• •	gb[AAD09765.1]	
				•					٠											-				2A9 peptide [Homo sapiens]	precursor polypeptide	[Homo sapiens]	(AF096304) putative	sterol reductase SR-1
																		,						blastx.2	blastx.2		blastx.2	
									<i>.</i>				•											44	45		46	
		•						•																831453	832454	, 	833088	
				`																			•	HWLJE49	HLOBT44		HSLGG58	 

1029	480	170	353		1096	834	301	198	1102	717	172		382	805	390	268
926	157	48	123		404	1121	591	281	1188	860	111		11	707	406 485	333
61%	%56	100%	100%	·	100%	29%	34%	20%	41%	34%	100%		48%	93%	55% 71%	29%
	dbj BAA21510.1		gb AAB61158.1		gb AAA60239.1	gb[AAC72810.1]	-				gb AAC52117.1		emb CAA90017.1	gb AAB34132.1	gb AAF28916.1 AF1 61356 1	ľ
[Homo sapiens]	(AB005624) rig-analog	DNA-binding protein [Sus scrofa]	cysteine-rich intestinal protein [Homo sapiens]		quinone oxidoreductase [Homo sapiens]	(AF081114) ORF2	Mus musculus	domesticus]		-	kinesin-like motor	protein KIF1C [Homo sapiens]	plasmolipin [Rattus norvegicus]	P26s4 [Cricetinae gen. sp.]	(AF161356) HSPC093 [Homo sapiens]	,
	blastx.2		blastx.2		blastx.2	blastx.2					blastx.2		blastx.2	blastx.2	blastx.2	·
	47		48		49	50					51		52	53	54	
	840756		840862		841088	843485			,		844534		847355	847647	847821	
	<b>НСНВО33</b>	,	HDTMK30		HDPFX64	HODFG71					HCE3165		HSAVH65	HBXFT41	HBMCM3	

502	368	437	735	1610	316	691 1090 225	1202	380	721 536 427
534	3	225 542	628	15	80	224 647 160	1498	208	590 429 317
%89	57%	40%	%/6	%66	100%	94% 95% 95%	%69	%6L	65% 61% 67%
	pir JC7287 JC7287	gb AAD48374.1	gb AAF00037.1	emb CAA12176.1	gb AAD20967.1	gb AAF04914.1 U670 85_1	dbj BAA91131.1	dbj BAA91205.1	gb AAF22026.1 AF1 18094_21
	G-protein coupled receptor, SREB1 - human	(AF123880) gag polyprotein [multiple sclerosis associated retrovirus element]	(AF089895) cAMP-dependent protein kinase subunit R2 beta [Oryctolagus cuniculus]	(AJ224875) glucosyltransferase [Homo sapiens]	(AF070661) HSPC005 [Homo sapiens]	TcD37 homolog [Homo sapiens]	(AK000385) unnamed protein product [Homo sapiens]	(AK000496) unnamed protein product [Homo sapiens]	(AF118082) PRO1902 [Homo sapiens]
	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2
	55	95	57	28	59	09	61	62	63
	849064	859572	859622	862010	862481	863515	866444	696198	869701
	HACBO42	HODBF86	HOABP90	HE8UE42	HUSJJ59	HSSDM07	HBCBW52	HOGAS18	HHSDL18

جَا	874506	77	hloopy 2	(AF153101) nm23_H7	1 API A D34622 11 A F1	100%	1232	798
3		3	7:076770	(Homo saniens]	53191 1	2007	1208	813
874608	+	99	blastx.2	A4 protein [Homo	gb AAA35499.1	100%	173	628
	十	,	,	sapiens		, 600	,	[
874787		29	blastx.2	5'-nucleotidase [Homo sapiens]	emb CAA39271.1	98%	156	911
874891		89	blastx.2	SPIN protein [Homo sapiens]	emb CAA75163.1	93%	<del>7</del>	643
874930	1	69	blastx.2	(AL137608)	emb CAB70840.1	31%	104	397
				hypothetical protein [Homo sapiens]				
874931	1	70	blastx.2	neutrophil gelatinase	emb CAA58127.1	100%	170	763
				associated lipocalin [Homo sapiens]				
875093	<del> </del>	71	blastx.2	GCP170 [Homo	dbj BAA23661.1	60%	23	373
875352	┪	72	blastx 2	(AF064604) KF03	ob[AAC17109.1]	%08	350	454
!				protein [Homo sapiens]				
875371		73	blastx.2	(AK001527) unnamed	dbj BAA91741.1	%/6	€	440
	•			protein product [Homo sapiens]				
875682	T	74	blastx.2	(AK000219) unnamed	dbj BAA91018.1	%86	4	504
				protein product [Homo sapiens]			-	
876052	Г	75	blastx.2	catalase	emb CAA59444.1	85%	202	103
				[Campylobacter jejuni]				
876487		92	blastx.2	propionyl-CoA	emb[CAA32763.1]	100%	99	292
				carboxylase [Homo				
	_			Sapicina				

2 876696	HISET05	989928	11	blastx.2	(AJ270993) homeobox	emb CAB65909.1	%56	511	849
877310   79   blastx.2   hepatocyte nuclear   gb AAC51129.1    84%   3   lactor-3/fork head   homolog 11B [Homo   gb AAB47250.1    97%   197					protein [Homo sapiens]		%99	801	926
Record   Factor-3/fork head   Homolog 11B [Homo 1   PAS2 [Homo gb AAB47250.1    95% 142	HCRQM22	876696	78	blastx.2	hepatocyte nuclear	gb AAC51129.1	84%	3	401
Section   Pastr.   Pomolog   IlB   Homo   SupleAB47250.1   97%   197					factor-3/fork head	-			
877310         79         blastx.2         neuronal PAS2 [Homo         gb AAB47250.1          97%         197           879484         80         blastx.2         (AF053651) cellular apoptosis susceptibility         gb AAC35297.1          100%         954         2           880545         81         blastx.2         (AF132954) putative protein [Homo sapiens]         emb CAB75750.1          35%         53           1882466         82         blastx.2         (AF089745) FK506-         gb AAC78853.1          95%         14           1882486         82         blastx.2         (AF118082) PRO1902         gb AAC78853.1          95%         14           1882480         84         blastx.2         (AF118082) PRO1902         gb AAF22026.1 AF1         62%         2382           1889128         85         blastx.2         (AF118082) PRO1902         gb AAF22026.1 AF1         71%         2699           189139         86         blastx.2         (AF118082) PRO1902         gb AAF22026.1 AF1         71%         2699           1894855         87         blastx.2         peptidylprolyl         emb CAA75571.1          71%         99           1894855         87         blastx.2         vacuolar proton-         emb CAA75571.1          71%		•			homolog 11B [Homo 1				
Sapiens   Sapi	HLHTC92	877310	62	blastx.2	neuronal PAS2 [Homo	gb[AAB47250.1]	%26	197	418
879484 80   blasts.2   (AF053651) cellular   gb AAC35297.1    100%   954   2					sapiens		%56	142	201
879484         80         blastx.2 apoptosis susceptibility protein [Homo sapiens]         gb AAC35297.1          100%         954         2           880545         81         blastx.2 (AL132954) putative protein [Homo sapiens]         emb CAB75750.1          35%         53           1882466         82         blastx.2 (AF089745) FK.506- binding protein [Homo sapiens]         gb AAC78853.1          95%         14           1882480         84         blastx.2 (AF118082) PRO1902 gb AAF22026.1 AF1         62%         134           889128         85         blastx.2 (AF118082) PRO1902 gb AAF22026.1 AF1         71%         2699         2           889128         85         blastx.2 (AF118082) PRO1902 gb AAF22026.1 AF1         71%         2699         2           889128         85         blastx.2 (AF118082) PRO1902 gb AAF22026.1 AF1         71%         2699         2           889128         85         blastx.2 (AF118082) PRO1902 gb AAF22026.1 AF1         71%         2699         2           891139         86         blastx.2 peptidylrolyl         emb CAA37039.1          71%         99           894855         87         blastx.2 vacuolar proton-         emb CAA75571.1          71%         99							. 32%.	482	574
Second	H2CAA49	879484	80	blastx.2	(AF053651) cellular	gb AAC35297.1	100%	954	2108
880545   81   blastx.2 (AL132954) putative   emb CAB75750.1    35%   53   1556   2   23%   1556   2   1556   2   1556   2   1556   14   155   1   155   1   1155   1   1155   1   1					apoptosis susceptibility				
880545         81         blastx.2         (AL132954) putative protein [Arabidopsis         emb CAB75750.1          35%         53           1000 <t< td=""><td></td><td></td><td></td><td></td><td>protein [Homo sapiens]</td><td></td><td></td><td></td><td></td></t<>					protein [Homo sapiens]				
S82466   S2   blastx.2   (AF089745) FK506-   gb AAC78853.1    95%   1155   14   14   14   14   15   14   15   15	HETKO94	880545	81	blastx.2	(AL132954) putative	emb CAB75750.1	35%	53	838
S82466   82   blastx.2   (AF089745) FK506-   gb AAC78853.1    95%   14   54%   14   14   54%   14   14   14   14   14   14   14	,				protein [Arabidopsis		23%	1556	2080
882466         82         blastx.2         (AF089745) FK506-         gb AAC78853.1          95%         14           binding protein [Homo         sapiens]         54%         14           882787         83         blastx.2         (AF118082) PRO1902         gb AAF22026.1 AF1         62%         2230         2           888480         84         blastx.2         AF-1 [Homo sapiens]         gb AAA16955.1          63%         18           889128         85         blastx.2         (AF118082) PRO1902         gb AAA16955.1          63%         416           889128         85         blastx.2         (AF118082) PRO1902         gb AAA16955.1          62%         416           891139         86         blastx.2         peptidylprolyl         emb CAA37039.1          100%         59           894855         87         blastx.2         vacuolar proton-         emb CAA75571.1          71%         99	•				thaliana]	-	33%	1155	1298
Septient   Pinding protein [Homo sapients]   AFW   14     S82787   S3   blastx.2   AF118082) PRO1902   gb AAF22026.1 AF1   62%   2230   2382   2388480   S4   blastx.2   AF-1 [Homo sapients]   Bb AAF22026.1 AF1   62%   416   62%   42	HOFM023	882466	82	blastx.2	(AF089745) FK506-	gb[AAC78853.1]	%56	14	466
882787         83         blastx.2         (AF118082) PRO1902         gb AAF22026.1 AF1         66%         134           888480         84         blastx.2         AF-1 [Homo sapiens]         gb AAA16955.1          63%         18           889128         85         blastx.2         (AF118082) PRO1902         gb AAF22026.1 AF1         71%         2699         2           891139         86         blastx.2         peptidylprolyl         emb CAA37039.1          100%         59           7         894855         87         blastx.2         vacuolar proton-         emb CAA75571.1          71%         99					binding protein [Homo		24%	14	499
882787         83         blastx.2         (AF118082) PRO1902         gb AAF22026.1 AF1         62%         2230         2           888480         84         blastx.2         AF-1 [Homo sapiens]         gb AAA16955.1          63%         416           889128         85         blastx.2         (AF118082) PRO1902         gb AAF22026.1 AF1         71%         2699         2           891139         86         blastx.2         peptidylprolyl         emb CAA37039.1          100%         59           7 894855         87         blastx.2         vacuolar proton-         emb CAA75571.1          71%         99           7 894855         87         blastx.2         vacuolar proton-         emb CAA75571.1          71%         99					sapiens		46%	14	454
882787         83         blastx.2         (AF118082) PRO1902         gb AAF22026.1 AF1         62%         2230         2           888480         84         blastx.2         AF-1 [Homo sapiens]         gb AAA16955.1          63%         18           889128         85         blastx.2         (AF118082) PRO1902         gb AAF22026.1 AF1         71%         2699         2           891139         86         blastx.2         peptidylprolyl         emb CAA37039.1          100%         59           894855         87         blastx.2         vacuolar proton-         emb CAA75571.1          71%         99           7 894855         87         blastx.2         vacuolar proton-         emb CAA75571.1          71%         99					1		25%	194	499
888480         84         blastx.2         AF-1 [Homo sapiens]         gb AAA16955.1          60%         2382         2           889128         85         blastx.2         (AF118082) PRO1902         gb AAF22026.1 AF1         71%         2699         2           891139         86         blastx.2         peptidylprolyl         emb CAA37039.1          100%         59           sapiens]         sapiens]         emb CAA75571.1          71%         99           ATPase subunit M9.2         ATPase subunit M9.2         emb CAA75571.1          71%         99	HNTNP58	882787	83	blastx.2	(AF118082) PRO1902	gb AAF22026.1 AF1	979	2230	2391
888480         84         blastx.2         AF-1 [Homo sapiens]         gb AAA16955.1          63%         18           889128         85         blastx.2         (AF118082) PRO1902         gb AAF22026.1 AF1         71%         2699         2           891139         86         blastx.2         peptidylprolyl         emb CAA37039.1          100%         59           894855         87         blastx.2         vacuolar proton-         emb CAA75571.1          71%         99           ATPase subunit M9.2         ATPase subunit M9.2         emb CAA75571.1          71%         99					[Homo sapiens]	18094 21	%09	2382	2480
889128         85         blastx.2         (AF118082) PRO1902         gb AAF22026.1 AF1         71%         2699         2           891139         86         blastx.2         peptidylprolyl         emb CAA37039.1          100%         59           894855         87         blastx.2         vacuolar proton-         emb CAA75571.1          71%         99           ATPase subunit M9.2         ATPase subunit M9.2         emb CAA75571.1          71%         99	HOFNY28	888480	84	blastx.2	AF-1 [Homo sapiens]	gb AAA16955.1	93%	18	476
889128         85         blastx.2         (AF118082) PRO1902         gb AAF22026.1 AF1         71%         2699           891139         86         blastx.2         peptidylprolyl isomerase [Homo sapiens]         emb CAA37039.1          100%         59           894855         87         blastx.2         vacuolar proton- vacuolar proton- ATPase subunit M9.2         emb CAA75571.1          71%         99				-			62%	416	658
891139         86 blastx.2 peptidylprolyl isomerase [Homo sapiens]         emb CAA37039.1  100% 59 59 59           894855         87 blastx.2 vacuolar proton- ATPase subunit M9.2         emb CAA75571.1  71% 99 50	HE8MQ01	889128	85	blastx.2	(AF118082) PRO1902	gb AAF22026.1 AF1	71%	5696	2490
891139         86         blastx.2 isomerase [Homo sapiens]         emb CAA37039.1          100%         59           894855         87         blastx.2 vacuolar proton- vacuolar proton- ATPase subunit M9.2         emb CAA75571.1          71%         99				,	[Homo sapiens]	18094_21			
	HE2RG21	891139	98	blastx.2	peptidylprolyl	emb CAA37039.1	100%	65	553
894855         87         blastx.2         vacuolar proton-         emb CAA75571.1          71%         99           ATPase subunit M9.2         ATPase subuni					isomerase [Homo				
894855         87         blastx.2         vacuolar proton-         emb CAA75571.1          71%         99           ATPase subunit M9.2         ATPase subuni					sapiens]				
ATPase subunit M9.2		894855	87	blastx.2	vacuolar proton-	emb CAA75571.1	71%	66	338
				,	ATPase subunit M9.2				

	544	1114	1418	128	956	932	940	955	2418	313	1524	171	089	2459	1025	2474	2186	2093	2540	401	
	654	152 1086	195	9 .	837	801	833	836	1852	170	1375	109	6	1167	588	1776	1716	1653	2274	51	
	70%	87% 93%	100%	%56	22%	20%	22%	20%	47%	39%	25%	45%	71%	39%	37%	19%	22%	21%	24%	54%	
	dbj BAA85438.1	gb AAA67890.1	gb AAA51835.1	sp Q9Y6Y5 Q9Y6Y5					gb AAF15883.1 AF2	00706_1	1		emb CAA42997.1	gb AAA81143.1						sp O62680 CD59_PI	כ
[Homo sapiens]	(AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	Rabin3 [Rattus norvegicus]	bone morphogenetic protein 2B [Homo sapiens]	IDN4-GGTR14	PROTEIN.				(AF200706) UNC-84A	Caenorhabditis	elegans	1	delta-9 desaturase [Gallus gallus]	weakly similar to E.	nidulans bimA gene	product (SP:P17885)	Caenorhabditis	elegans	ī	CD59	OLI COLINO LELIN
	blastx.2	blastx.2	blastx.2	blastx.2					blastx.2				blastx.2	blastx.2			·.			blastx.2	
	88	68	8	91	_				92				93	94						95	
	897344	897862	900546	902534					904763				904783	990906						908746	
	HOFNUSS	HE8TE40	HNTCH73	HIHFBY53					HDPIE44				HHSAX10	HPIAX83						HOFNG28	1

			·	PRECURSOR (MEMBRANE ATTACK COMPLEX 1 (PROTECTIN)				
HOFOB27	911947	96	blastx.2	(AL050283) hypothetical protein	emb CAB43384.1	97% 77% 42%	380	1491 745 427
HHBHJ45	913831	97	blastx.2	initiation factor 2 [Homo sapiens]	gb AAA67038.1	100%	11	1498
HHPDV90	914163	86	blastx.2	(AF090942) PRO0657 [Homo sapiens]	gb AAF24054.1 AF0 90942 1	23%	1122	874
HWMMQ4	915068	66	blastx.2	(AB029042) ATPase	dbj BAA88422.1	100%	53	232
			·	inhibitor precursor [Homo sapiens]		100%	1614	1754
HBGNY08	915214	100	blastx.2	(AP000616) similar to	dbj BAA85438.1	%56	423	364
				RING-H2 finger		100%	423	367
				protein RHA1a		100%	423	367
				(AF078683) [Oryza		100%	423	367
				sativa		77%	423	343
				•		%06	423	364
						84%	421	347
			,	-		44%	308	222
						33%	309	229
						35%	332	249
HODGH45	917394	101	blastx.2	(AK000385) unnamed protein product [Homo	dbj BAA91131.1	%08	819	938
	,			sapiens				
HWLKE58	917716	102	blastx.2	(AL031629) similar to	emb CAA20980.2	52%	275	496
				RNA recognition motif.				
				·				].

	5% 113 1129		4% 156 386	156	156 187 687 43	156 187 687 43	156 187 687 43 384	156 187 687 43 384 2 2	156 187 687 43 384 2 2	156 187 687 43 384 2 2 447	156 187 687 43 384 2 2 447	156 187 687 43 2 2 2 2 2 2 2 384 384 384 384 384 384 384 384 384 384	156 187 687 43 384 2 2 2 2 2 2 2 344 344	156 187 687 43 384 2 2 2 2 2 2 2 2 344 307	156 187 687 43 384 2 2 2 2 2 2 2 344 307 1281 1364	156 687 687 43 384 2 2 22 22 344 307 1281 1364 1	156 687 687 43 384 2 2 2 22 22 344 307 1281 1364 1	156 687 687 43 384 2 2 2 22 22 344 307 1281 1364 1364 1364 1364 1364 1364 1364 136	156 687 687 43 384 2 2 2 2 2 2 2 34 307 1281 1364 1364 1364 1 1367 1281 1281 1364 1 1367 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	47.1  85%		262.1  54%																
	gb AAC37547.1		emb CAA45262.1	emb CAA45262 gb AAB01069.1	emb CAA45262 gb AAB01069.1	emb CAA45262.1 gb AAB01069.1  emb CAB70771.1	emb CAA45262 gb AAB01069.1 emb CAB70771	emb CAA45262 gb AAB01069.1 emb CAB70771.	emb CAA45262 gb AAB01069.1 emb CAB70771 gb AAA58350.1	emb CAA45262. gb AAB01069.1  emb CAB70771. gb AAA58350.1  gb AAA88036.1	emb CAA45262.1  gb AAB01069.1  emb CAB70771.1  gb AAA58350.1  gb AAA88036.1  emb CAA37647.1	emb CAA45262 gb AAB01069.1 emb CAB70771 gb AAA58350.1 gb AAA88036.1 emb CAA37647	emb CAA45262 gb AAB01069.1 emb CAB70771 gb AAA58350.1 gb AAA88036.1 emb CAA37647	emb CAA45262 gb AAB01069.1 emb CAB70771 gb AAA58350.1 emb CAA37647	emb CAA45262 gb AAB01069.1 emb CAB70771 gb AAA88036.1 emb CAA37647	emb CAA45262 gb AAB01069.1 emb CAB70771. gb AAA58350.1 emb CAA37647 gb AAC512692.1	emb CAA45262 gb AAB01069.1 emb CAB70771 gb AAA58350.1 emb CAA37647 gb AAC26082.1 gb AAC51269.1	emb CAA45262 gb AAB01069.1 gb AAA58350.1 gb AAA88036.1 emb CAA37647 gb AAC26082.1 gb AAC51269.1	emb CAA45262 gb AAB01069.1 gb AAA58350.1 gb AAA88036.1 gb AAC26082.1 gb AAC51269.1
sapiens	cathepsin B [Homo sapiens]	7 · · · · · · · · · · · · · · · · · · ·	A I Fase subunit o [Phoca vitulina]	A 1 Pase subunit o [Phoca vitulina] inositol polyphosphate	A I Pase subunit o [Phoca vitulina] inositol polyphosphate 4-phosphatase [Rattus norvegicus]	A I Pase subunit o [Phoca vitulina] inositol polyphosphate 4-phosphatase [Rattus norvegicus] (AL137496)	A I Pase subunit o [Phoca vitulina] inositol polyphosphate 4-phosphatase [Rattus norvegicus] (AL 137496) hypothetical protein [Homo sapiens]	A I Pase subunit o [Phoca vitulina] inositol polyphosphate 4-phosphatase [Rattus norvegicus] (AL 137496) hypothetical protein [Homo sapiens] replication protein A 14kDa subunit [Homo	A I Pase subunit o [Phoca vitulina] inositol polyphosphate 4-phosphatase [Rattus norvegicus] (AL 137496) hypothetical protein [Homo sapiens] replication protein A 14kDa subunit [Homo sapiens]	A I Pase subunit o [Phoca vitulina] inositol polyphosphate 4-phosphatase [Rattus norvegicus] (AL 137496) hypothetical protein [Homo sapiens] replication protein A 14kDa subunit [Homo sapiens] unknown protein [Homo sapiens]	A I Pase subunit o [Phoca vitulina] inositol polyphosphate 4-phosphatase [Rattus norvegicus] (AL137496) hypothetical protein [Homo sapiens] replication protein A 14kDa subunit [Homo sapiens] unknown protein [Homo sapiens]	A I Pase subunit o [Phoca vitulina] inositol polyphosphate 4-phosphatase [Rattus norvegicus] (ÁL 137496) hypothetical protein [Homo sapiens] replication protein A 14kDa subunit [Homo sapiens] unknown protein [Homo sapiens] oncyegicus]	A I Pase subunit o [Phoca vitulina] inositol polyphosphate 4-phosphatase [Rattus norvegicus] (AL 137496) hypothetical protein [Homo sapiens] replication protein A 14kDa subunit [Homo sapiens] unknown protein [Homo sapiens] ORF4 [Rattus norvegicus]	A I Pase subunt o [Phoca vitulina] inositol polyphosphate 4-phosphatase [Rattus norvegicus] (AL137496) hypothetical protein [Homo sapiens] replication protein A 14kDa subunit [Homo sapiens] unknown protein [Homo sapiens] ORF4 [Rattus norvegicus] (AF034633) GPR39	A I Pase subunit o [Phoca vitulina] inositol polyphosphate 4-phosphatase [Rattus norvegicus] (AL137496) hypothetical protein [Homo sapiens] replication protein A 14kDa subunit [Homo sapiens] unknown protein [Homo sapiens] ORF4 [Rattus norvegicus] (AF034633) GPR39 [Homo sapiens]	A I Pase subunit o [Phoca vitulina] inositol polyphosphate 4-phosphatase [Rattus norvegicus] (AL137496) hypothetical protein [Homo sapiens] replication protein A 14kDa subunit [Homo sapiens] unknown protein [Homo sapiens] ORF4 [Rattus norvegicus] (AF034633) GPR39 [Homo sapiens] putative p150 [Homo	A I Pase subunit o [Phoca vitulina] inositol polyphosphate 4-phosphatase [Rattus norvegicus] (AL 137496) hypothetical protein [Homo sapiens] replication protein A 14kDa subunit [Homo sapiens] unknown protein [Homo sapiens] ORF4 [Rattus norvegicus] [AF034633) GPR39 [Homo sapiens] putative p150 [Homo sapiens]	A I Pase subunt o [Phoca vitulina] inositol polyphosphate 4-phosphatase [Rattus norvegicus] (AL137496) hypothetical protein [Homo sapiens] replication protein A 14kDa subunit [Homo sapiens] unknown protein [Homo sapiens] ORF4 [Rattus norvegicus] (AF034633) GPR39 [Homo sapiens] putative p150 [Homo sapiens]	A I Pase subunt o [Phoca vitulina] inositol polyphosphate 4-phosphatase [Rattus norvegicus] (AL137496) hypothetical protein [Homo sapiens] replication protein A 14kDa subunit [Homo sapiens] unknown protein [Homo sapiens] ORF4 [Rattus norvegicus] (AF034633) GPR39 [Homo sapiens] putative p150 [Homo sapiens]
Hacte 7 cath		blastx.2 AT		blastx.2 ino															
l	401	105 b	┝	901															
	919895	920253	001707	771707	771101	922191	922191	922191	922191	922191	922191 922879 922955	922191	922191 922955 925296	922191 922879 922955 925296	922191 922879 922955 925296	922191 922879 922955 925296 925735	922191 922879 922955 925296 925735	922191 922879 925296 925735 925837	922191 922879 922955 925735 925837
<del> </del>	HOFMP73	HOFMS02	HI WHN12	-					<u></u>	4	4 6	7 4 m	4 6						<del></del>

				[Schizosaccharomyces		32%	965	1048
				pombe				
HOVAY63	944031	124	blastx.2	L1 retroposon, a	emb CAA43593.1	%59	583	488
			-	portion of its ORF2		43%	229	125
				sequence [Rattus		34%	492	376
				norvegicus]				
HDPFY41	946502	125	blastx.2	(AL050294)	emb CAB43393.1	94%	624	2072
				hypothetical protein	•	%88	1984	2037
				[Homo sapiens]		52%	2039	2113
HCOPB92	948608	126	blastx.2	ORF2, encodes a	gb[AAB60345.1]	%09	66	182
				reverse transcriptase		21%	7	106
				homolog [Homo		<b>%99</b>	257.	. 310
				sapiens]		64%	169	243
HBJH083	948708	127	blastx.2	envelope polyprotein	gb AAA37565.1	46%	177	365
				[Mus musculus]		45%	4	174
,			,	1		85%	2	61
HWME04	948719	128	blastx.2	(AF038963) RNA	gb AAD19826.1	%66	m	1343
4				helicase [Homo			-	
				sapiens]				
HFXJA96	949001	129	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	93%	40	135
HTLGV19	949574	130	blastx.2	human complement	gb AAA51851.1	46%	72	539
				Clr [Homo sapiens]		36%	604	732
				1		25%	267	740
HMSAC18	950257	131	blastx.2	(AB023584) reduced	dbj BAA88923.1	100%	29	919
				expression in cancer	-			
				[Homo sapiens]				
HAPRB43	950475	132	blastx.2	(AF124522) tetraspan	gb AAD17317.1	100%	m	536
				TATE TIONS SEPTEMB				

115		1551	499	155		1117	1117	1397	1117	1452	1557	1028		1805	1680	346	1660	940	2308	2312	2313.	2317	2316	2307	2315	2314
225		424	113	6		515	515	645	809	1099	1099	219		1969	1820	38	32	473	2270	2226	2269	2273	2272	2269	2226	2270
94%		94%	70%	32%		31%	33%	33%	33%	33%	27%	100%		%09	38%	%66	%16	27%	53%	34%	%09	%09	%09	46%	36%	23%
emb CAA59444.1		gb AAD52683.1[AF1	79370_1	<u> </u>		gb AAA53048.1						emb CAB61378.1		gb AAA88036.1		emb CAA66609.1	gb AAD45865.1 AF0	83217 1				•				
catalase	[Campylobacter jejuni]	(AF179370) insulin-	like growth factor	binding protein 5	protease [Rattus norvegicus]	proline-rich protein	Mus musculus	3 .				(AL133051)	hypothetical protein	unknown protein	[Homo sapiens]	calcyphosine [Homo	(AF083217) WD repeat	protein WDR3 [Homo	sapiens	7 .						
blastx.2		blastx.2				blastx.2						blastx.2		blastx.2		biastx.2	blastx.2								-	
133		135				136						137		138		139	140	•								
956895		859096				961337						961458		962362		965190	965372							-		
-HCCMD55		HKADF15	•	•		HOGESSS	,					HKZAJ14		HI.HAE14		HBCJN16	HCGAF29									

$\vdash$						47%	1600	1665
967807	7(	142	blastx.2	(AK000069) unnamed	dbj BAA90924.1	100%	2	1267
				protein product [Homo sapiens]				
968171	71	143	blastx.2	similar to	dbj BAA13219.1	33%	8	646
				D.melanogaster		36%	428	718
				peroxidasin(U11052)		30%	∞	241
968454	454	144	blastx.2	(AB017644) ubiquitin-	dbj BAA76544.1	100%	391	1011
				conjugating enzyme E2	-			
ļ				Homo sapiens	1		•	10,0
896	968949	145	blastx.2	preceruloplasmin (EC	gb AAA51976.1	100%	7	2187
				1.16.3.1) [Homo		40%	106	1512
				sapiens		41%	1183	2184
96	969387	146	blastx.2	(AK000200) unnamed	dbj BAA91005.1	94%	306	151
				protein product [Homo				
				sapiens				
26	970046	148	blastx.2	F20D12.3 gene product	gb AAA81672.1	38%	359	1099
				Caenorhabditis		36%	1259	1891
				elegans		25%	2021	2653
						25%	974	1102
97	973010	149	blastx	hPMSR6 [Homo	gb AAA97460.1	26%	324	536
			-	sapiens]		%99	552	605
97	973505	150	blastx.2	15 KD	sp 060613 SE15_HU	%56	18	503
				SELENOPROTEIN	MAN			
			,	PRECURSOR.				
7/26	974667	151	blastx.2	(AB012955) KIP2	dbj BAA33584.1	%66	444	812
				[Homo sapiens]				
97.	975754	152	blastx.2	hepatocyte growth	gb[AAA50165.1]	%06	91	639

				factor-like protein		20%	100	579
	٠			Homo saniens		44%	100	579
				[crordae orrorr]		20%	346	558
HWLHW8	975771	153	blastx.2	epithelial glycoprotein	gb AAA35723.1	100%	245	1186
9				(EGP) precursor [Homo sapiens]				
HOFNM53	976051	154	blastx.2	(AL110276)	emb CAB53711.1	37%	498	1094
				hypothetical protein				
				Homo sapiens				
HDPSE86	976207	155	blastx	(AF086713) rasGAP-	gb AAD09006.1	83%	757	1311
				activating-like protein		816	1	420
		•		[Homo sapiens]	-	%96	208	774
						83%	401	511
						30%	361	450
					,	45%	1	42
HHFOE18	976216	156	blastx.2	(AL117664)	emb CAB56034.1	25%	376	1275
				hypothetical protein		35%	14	139
				[Homo sapiens]			·	
HHFNH27	896926	157	blastx.2	Nascent polypeptide	emb CAA56869.1	%86	79	289
				associated complex		100%	m	56
				alpha subunit [Homo				
				sapiens			1	
HMMBZ8	977264	158	blastx.2	alternatively spliced	gb[AAB49034.1]	25%	545	369
				product using exon				
				13A [Homo sapiens]				
HSLGF32	977704	159	blastx.2	(AL133063)	emb CAB61387.1	25%	2	250
				hypothetical protein				
				[Homo sapiens]				
HODFU73	978812	191	blastx.2	myeloid ecotropic viral	gb AAA85509.1	94%	371	652
				megranon suc-10				

blastx.2 (AF085356) putative RNA helicase [Homo sapiens]
blastx.2   ladinin [Homo sapiens]
blastx.2 (AK001665) unnamed protein product [Homo saniens]
blastx.2 (AF035299) similar to GAP binding protein p62do [Homo sapiens]
blactx.2 kinase A anchor protein
Subides official
blastx.2 (AK000385) unnamed
protein product [Homo sapiens]
blastx.2 alphall spectrin [Rattus norvegicus]
blastx.2 (AF181645)
BcDNA.GH12144
[Drosopnila   melanogaster]
-
blastx.2 predicted using
Genefinder; Similarity
to E.coli guanosine-3'

	901	1413	6 300 253 211	812	2	616	125
	2	481	392 233 407 306 288	381	217	80	33
,	%86	94%	35% 39% 40% 55% 34%	79%	100%	100%	%88
	emb CAB63713.1	gb AAA85505.1	gb AAC52556.1	gb AAB99905.1	gb ÀAC43132.1	gb AAD42057.1 AF0 44956_1	gb AAD16299.1
1 [Caenorhabditis elegans]	(AL133558) hypothetical protein [Homo sapiens]	similar to yeast Sec6p, Swiss-Prot Accession Number P32844; 1 1 norvegicus	Wiskott-Aldrich Syndrome Protein [Mus musculus]	(AF015037) endooligopeptidase A related protein; EOPA related protein [Oryctolagus cuniculus]	No definition line found [Escherichia coli]	(AF044956) NADH:ubiquinone oxidoreductase B22 subunit [Homo sapiens]	(AF099664) Cdc42 effector protein 4 [Homo sapiens]
	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2
	171	172	173	174	175	176	177
	981272	981309	981319	981593	981606	981768	981812
	HCFOF82	HOCMT79	HKAE103	НОСРО31	HAOTG88	HVCAH21	HFPCK56

482		250	247	245	285	284	283	280	282	281	277	279	278	275	274	276	271	273	272	270	268	569	265	266	267	262	263	264
24		321	318	316	350	349	348	345	347	346	342	344	343	340	339	341	336	338	337	335	333	334	330	331	332	327	328	329
87%		%56	91%	%56	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
emb CAB75427.1	,	dbj BAA85438.1					-																			-		•
(AJ271784)	chromokinesin [Homo sapiens]	(AP000616) similar to	RING-H2 finger	protein RHAIa	(AF078683) [Oryza	sativa	1				-									•								
blastx.2		blastx.2										-																•
178		179																						-,-,				
981859		981862																										
HAOSJ58		HOPJT48										•																

259	260	242	241	239	217	1001		156	578	635	942	1137	552						949	157		737	790	705	3170	1451	1451
324	325	313	318	316	318	54		865	763	292	1088	879	121						503	∞		63	869	100	2124	1167	1167
100%	100%	91%	%88	84%	64%	%66	,	36%	33%	37%	73%	48%	46%	,					%66	%06		%96	74%	100%	32%	38%	38%
						dbj BAA91241.1		emb CAA91932.1				emb CAA19455.1							dbi BAA91222.1	5		emb CAA12271.1		gb AAA36158.1	gb AAB66420.1		
						(AK000541) unnamed	protein product [Homo sapiens]	similar to cuticle	collagen	[Caenorhabditis	elegans]	(AL023828) cDNA	EST yk289g5.5 comes	from this gene; cDNA	EST 1 1 yk653f1.5	comes from this gene;	cDNA EST	EMBL:C07875 comes	(AK000516) unnamed	protein product [Homo	sapiens]	(AJ224979) MTMR1	[Homo sapiens]	L6 [Homo sapiens]	auimm] uwouxiun	herpesvirus 68]	ı
			_			blastx.2		blastx.2				blastx.2							blastx.2		·	blastx.2		blastx.2	blastx.2	٠	
_						180		182				184							185			186		187	188		
						981914		982032				982197							982465			982618		982764	800£86		
						HCFAV61		HOVJY54				HE8MM52	<u></u>						HJBCC19			HODAA93		HSPSI74	HCEHZ42		

1451	1451	1451	2414	2304	375	375	375	334	334	334	334	817	817	817	817	817	135	135	1422	1422	1422	989	954	1138	1308	423	421		
1167	1167	1167	2127	2140	94	94	92	116	116	116	116	620	620	620	620	620	7	7	1234	1234	1234	72	685	1025	1216	34	248		
38%	38%	38%	32%	39%	35%	35%	35%	37%	37%	37%	37%	34%	34%	34%	34%	34%	37%	37%	38%	38%	38%	100%	100%	100%	100%	%09	28%		
	. •										•										•	gb AAB09785.1				emb CAA65358.1			
			. •			-		,	•													replication factor C, 37-	kDa subunit [Homo	sapiens	•	alpha subunit; forms	heterodimer with NC2	alpha/Dr1 [Homo	sapiens]
	. ,																				,	blastx.2				blastx.2	X.		
																						189				190			
													•									983592				984008			
			,																			HDPVU15				HT5GC28			

451	626	244	393	369	336	10	069		547			1293	391	511			1471	1387				591	363	089	1312
. 185	393	110	738	244	247	960	169		65			394	2	134		,	14	14				1	103	651	2
100%	42%	46%	46%	28%	35%	28%	100%		100%			%86	%26	31%			54%	23%				100%	48%		100%
emb CAA37064.1	emb CAB45690.1			,		emb CAA84230.1	emb CAA53619.1		gb AAC36338.1	•		dbj BAA23673.1		dbj BAA83500.1			gb AAD09819.1				•	emb CAA65246.1	emb CAA39297.1		gb AAA36584.1
t-complex polypeptide 1 (AA 1-556) [Homo sapiens]	(AJ243177) Xenopus	RPA interacting protein	alpha [Xenopus laevis]			extensin-like protein [Zea mays]	neuromedin U [Homo	sapiens	(AF087135) F1FO-type	ATPase subunit d	Homo sapiens	GTBP-ALT [Homo	sapiens]	(AB031292)	proteolipid protein 2	Mus musculus	(AF111423)	chromosome	condensation protein	XCAP-G [Xenopus	[aevis]	erm [Homo sapiens]	put. ORF [Homo	sapiens]	replication protein A,
blastx.2	blastx.2					blastx.2	blastx.2		blastx.2			blastx.2		blastx.2			blastx.2					blastx.2	blastx.2		blastx.2
191	192					193	194		195			196		197			198					199	200		201
984168	985043.				-	985280	985323		985401			985580		820986			986158			•		986165	986328		986744
HDABW5 0	HAQBH11					HMVAW4	HAGDF03		HOPKI29			HAJCA11		HWAHA1	1		HSAMI43					HNFJH73	HNTCH03		HSUAA20

1347	1054	1092	718	850	400 53	1289 476 1238	857 1061	812 428	17/0
1315	905	256	278	368	38	57 81 663	492 801	516	1779
100%	100%	76%	46%	100%	%88 %96	94% 47% 41%	44%	33%	01%
	emb CAB37641.1	emb CAB57330.1	gb AAC61698.1	emb CAA69255.1	gb AAD27835.1 AF1 21862_1	emb[CAA75163.1]			
70-kDa subunit [Homo sapiens]	(AL031663) dJ461P17.6 (Major Epididymis-specific protein E4 1 1 sapiens]	(AL121740) hypothetical protein [Homo sapiens]	(AF068749) sphingosine kinase [Mus musculus]	helix-loop-helix protein [Homo sapiens]	(AF121862) sorting nexin 13 [Homo sapiens]	SPIN protein [Homo sapiens]	•		
	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2			
	202	203	204	205	206	207	,		
	792986	987018	987071	987112	987165	987262			
	HSPAD08	HFKBA32	HHFLU49	HOENX16	HTFOW71	HTTAG03		<del></del>	

HINTININ89	712186	208	blastx.2	elongation factor 2	emb CAA35829.1	%86	110	547
				[Homo sapiens]		17%	543	713
						100%	2	115
HRADQ96	987636	209	blastx.2	(AF134726) NG23 [Homo sapiens]	gb AAD21821.1	96% 100%	303	398
HLDCJ16	987808	210	blastx.2	3-oxoacyl-[acyl-carrier-protein] reductase (EC 1.1.1.100). [Escherichia coli]	dbj BAA35901.1	39%	159	761
<b>НСОРН23</b>	006286	211	blastx.2	nucleoporin-like protein [Homo sapiens]	emb CAA61667.1	94%	289	447
HEEA078	988159	212	blastx.2	TBX2 [Homo sapiens]	gb AAA73861.1	%66	164	475
,				1		%86	,	165
						33%	12	191
						73%	506	394
						29%	260	403
HOFNY16	988363	213	blastx.2	(AL110239)	emb CAB53690.1	%66	242	853
				hypothetical protein [Homo sapiens]		100%	144	236
HSLCX45	988441	214	blastx.2	(AB006572) RPB5 meidating protein	dbj BAA34781.1	%86	106	1404
				[Homo sapiens]				
HLMJB09	988499	215	blastx.2	cDNA EST yk575f9.3	emb CAA94859.1	39%	270	491
				comes from this gene		34%	496	591
				[Caenorhabditis elegans]				
HOVEF60	988526	216	blastx.2	envelope protein	gb AAA88027.1	75%	377	598
				[Homo sapiens]		36%	=	298
HOGDR72	988536	217	blastx.2	RNA polymerase II	gb AAA75522.1	100%	62	415
				ranson mondinging				

	366	728	587	956	222	318	789	107	2127	789	292	167	1107	1173	410	209	346	1178	974	216	121
	1	429	153	308 804	19	88	637	48	1	49	471	301	1148	535	312	551	260	120	279	_	5
	%66	%86	%66	%75 25%	78%	36%	31%	45%	%16	100%	%09	77%	21%	100%	93%	100%	72%	%76	24%	47%	35%
	emb CAA71143.1	gb AAB40147.1	emb CAA00862.1			,		•	emb CAB64449.1	emb CAA67781.1	dbj BAA91131.1			dbj BAA22572.1	emb CAA75516.1			dbj BAA19546.1			
p18 subunit [Homo sapiens]	high mobility group protein 2a [Homo sapiens]	MHC Class I region proline rich protein [Homo sapiens]	binding protein [Homo	sapiens					(AJ252060) TRABID	Berg36 [Homo sapiens]	(AK000385) unnamed	protein product [Homo	sapiens	(AB007619) EBAG9 [Homo sapiens]	Leu2 [Homo sapiens]	1		(AB002533) Qip1	[Homo sapiens]	1	
	blastx.2	blastx.2	blastx.2						blastx.2	blastx.2	blastx.2			blastx.2	blastx.2			blastx.2			
	218	219	220						221	222	223			224	225			226			
	988556	988737	988904						989029	989183	989280			989321	989323			968686			
	HOCMF20	HAMHH2 6	HHFOX44						HPWDE54	HNOAX46	HCOCB28	,		HOOJB32	HMWJJ35			HHFIA95			

247	282	099	618	652	813	790			1155	528	181	542	206	88	2745	330	330	327	330	327.	330	330	330	330	339	327	327
11	250	100	361	2	622	2			616	187	116	282	123	26	43	40	40	43	49	43	46	46	46	46	49	49	43
94%	100%	100%	%16	%86	%68	100%			100%	93%	100%	100%	78%	57%	%86	43%	40%	45%	46%	44%	47%	48%	45%	46%	43%	44%	41%
emb CAA43200.1		dbj BAA01374.2	gb AAF36161.1 AF1	gb AAC79695.1	-	dbj BAA91941.1			gb AAF32373.1 AF2	22742_1		gb AAF32373.1 AF2	22742 1		emb CAA36267.1			*	-				-			,	
transcription factor ILF	[Homo sapiens]	p67 myc protein Homo saniens1	(AF151075) HSPC241 [Homo saniens]	(AF067817) VAV-3	protein [Homo sapiens]	(AK001851) unnamed	protein product [Homo	sapiens]	(AF222742) synaptic	glycoprotein SC2	[Homo sapiens]	(AF222742) synaptic	glycoprotein SC2	[Homo sapiens]	collagen type VI, alpha	3 chain [Homo sapiens]	1										
blastx.2		blastx.2	blastx.2	blastx.2		blastx.2			blastx.2			blastx.2			blastx.2												
227		228	229	230		231			232			233			234												
209686		989952	090066	990146	)	990184			990254		,	990255			990435											,	,
HSPSH36		HAAAA25	HTEMJ16	HWLAB90		HOSED43			HNODF50			HLWBV17			99НОООН	,							٠			٠	

330	327	327	333	327	096	1587	647	1031			3258	707	499		•			2098.			526	63	324	72	72	75	72	75	72
85	46	46	46	49	391	1117	531	75			10	131	107					1436			65	43	241	4	13	-	Г	13	4
48%	41%	41%	41%	43%	79%	26%	45%	%66 .			%26	%99	37%				,	%66			42%	71%	100%	39%	45%	32%	36%	33%	21%
					•			gb AAA36407.1	•		dbj BAA13432.1		gb AAA83581.1					emb CAB59248.1			gb AAA58464.1		gb[AAD09746.1]				•		
								pyrroline-5-carboxylate	reductase [Homo	sapiens	TIP120 [Rattus	norvegicus]	coded for by C. elegans	cDNA yk38h3.5; coded	for by C. elegans 1 1 ·	[Caenorhabditis	elegans]	(AL122073)	hypothetical protein	[Homo sapiens]	ORF 3 [Homo sapiens]	1	(AF065391) ZIS1	Homo sapiens	3				
		-						blastx.2			blastx.2		blastx.2					blastx.2			blastx.2		blastx.2						
								235			236		237					238			239		240	) 					
	-					•		990546			609066		990611					990751		-	692066		990913						
						٠		HOGDC67			HCDBO02		HODGN92					HPDRP30			HBXFN09		HDTB075						

			7	(AF123033) FEC1	pp ADZ3834.1 AF1	47%	192	905
- 1				Homo sapiens	23653 1	52%	32	181
ŀ				1	ľ	38%	171	470
Ō,	991048	242	blastx.2	(AF213822)	gb AAF23786.1 AF2	45%	1104	1550
				hypothetical protein	13822 1	26%	1552	1710
	-		•	[Zymomonas mobilis]		27%	1747	1929
18	991268	243	blastx.2	(AF007872) torsinB	gb AAC51733.1	100%	238	492
				[Homo sapiens]		92%	209	873
				•		%69	803	940
9	991516	244	blastx.2	(AK001371) unnamed	dbj BAA91655.1	100%	192	449
				protein product [Homo			-	
				sapiens				
18	991654	245	blastx.2	(AK000385) unnamed	dbj BAA91131.1	%9/	263	24
				protein product [Homo	9			
				sapiens]				
99	991761	246	blastx.2	microsomal glutathione	gb AAC51768.1	100%	210	650
	,			S-transferase 2 [Homo				
				sapiens]				-
99	992678	247	blastx.2	TSC-22 [Homo	dbj BAA07598.1	%96	40	333
				sapiens				
99.	992780	248	blastx.2	(AK000474) unnamed	dbj BAA91189.1	100%	298	903
				protein product [Homo		%6/	933	1079
				sapiens]				
99.	992973	250	blastx.2	(AF176524) F-box	gb AAF09133.1	%19	∞	811
			,	musculus]				
96	993380	251	blastx.2	(AF151075) HSPC241	gb AAF36161.1 AF1	%66	157	540
				гото sapiens	310/3_1			
66	993403	252	blastx.2	cDNA EST	emb[CAB04720.1]	48%	111	407

803	372	549	134	613	382	671	969	1531	295	536	153	528	499	404	377
450 20	277	124	. "	545	239	624	3	1073	. 155	147		412	413	291	273
30%	78%	64%	48%	%69	%95	20%	43%	87%	95%	73%	<b>%96</b>	26%	51%	34%	. 28%
	gb AAD33288.1 AF1 26163 1	gb AAC51261.1			dbj BAA92096.1		emb CAA52297.1	dbj BAA92074.1	gb AAD27727.1 AF1 32952_1	dbj BAA91354.1		.*			
yk269g12.5 comes from this gene; cDNA EST EMBL:D27364 1 1 comes from this gene; cDNA EST EMBL:D36272 comes fr	(AF126163) HHLA3 protein [Homo sapiens]	putative p150 [Homo	Septemb 1		(AK002129) unnamed	protein product [Homo sapiens]	putative [Rattus norvegicus]	(AK002081) unnamed protein product [Homo saniens]	(AF132952) CGI-18 protein [Homo sapiens]	(AK000741) unnamed	protein product [Homo	sapiens]			
·	blastx.2	blastx.2			blastx.2		blastx.2	blastx.2	blastx.2	blastx.2					
	253	254			255		256	257	258	259					
	993602	993754			908866		993918	993931	994134	994234					
	HNGGK47	HODGN51			HODCT60		HAQBV81	HDTGF49	HOGBN62	HSKGR42					

468	437	362		1134		410	144	531		513		339								1157	270	1311	
316	291	. 3		1		231	67	169		85		43								273	124	46	
78%	32%	%26		100%		100%	81%	100%		100%		84%		•						%86	93%	%96	1
		emb CAB55923.1		emb CAA33389.1		emb CAA38702.1		gb AAC50885.1	-	dbj BAA03400.1		emb CAB37991.1		•						emb CAA72364.1	•	gb AAB51383.1	
		(AL117435)	hypothetical protein [Homo sapiens]	creatine kinase B	[Homo sapiens]	Cks1 protein	homologue [Homo	NifU-like protein	[Homo sapiens]	ribosomal protein	[Homo sapiens]	(AL031432) dJ465N24.1	(PUTATIVE novel	protein similar to	predicted yeast and	worm proteins) [Homo sapiens]				phosphate cyclase	[Homo sapiens]	lin-10 protein homolog	[ [ [ [ ] ] ] ] ] ]
		blastx.2	•	blastx.2		blastx.2		blastx.2		blastx.2		blastx.2							*	blastx.2		blastx.2	
		260		261		797		263		265		266					,	-		267		268	
		994356		994536		994596		994664		994776		994874								994954		994993	
		ноево85		HOPJG01		HKBAK06		HKGCN61		HFOYI37		HOFNL18								HOFNT57		HCBMT45	

1154	520	981	838	762	34	506 637	1307 1297	419	222
156	∞ .	73	47	100	33	99 419	90 1175	219	1
100%	92%	%66	%66	100%	74% 63%	80% 100%	94%	100%	100%
emb CAB43741.1	emb CAB66118.1	emb CAA70119.1	dbj BAA05647.1	gb AAA93069.1	sp G1488414 G14884 14	dbj BAA91400.1	gb AAA20993.1	gb AAA91459.1	dbj BAA82970.1
(AL031668) dJ64K7.2 (eukaryotic translation initiation factor 2, subunit 2 (beta, 38kD )) [Homo sapiens]	(AL050348) dJ447F3.2 (ubiquitin-conjugating enzyme E2 H10) [Homo sapiens]	alpha 4 protein [Homo sapiens]	proteasome subunit HsN3 [Homo sapiens]	SRp30c [Homo sapiens]	N8 GENE PRODUCT LONG ISOFORM, N8L PROTEIN=D52 1 HK4A1].	(AK000857) unnamed protein product [Homo sapiens]	NF45 protein [Homo sapiens]	RNA polymerase II subunit [Homo sapiens]	(AB030654) AP-4 clathrin adaptor-related complex sigma4 subunit [Homo sapiens]
blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2
269	270	271	272	273	274	275	276	277	278
995200	995229	995562	995590	908566	995894	996247	996337	996619	996804
HATDZ56	HOCQI44	HNOJG43	HSPSB95	HCORG29	HCRNO02	HCBOI79	HVCAB73	HSDJH04	HSOAN18

222	456	228	352	759	744	735	648	1174	555				957	298	1360	618			380		_		
170	1	1	218	244	-1	301	301	1037	487				274	32	1226	205			162				
91%	%96	%86	%26	100%	%88	34%	44%	100%	41%				%26	%26	%26	97%			%08				
gb AAA03583.1	gb AAA36585.1	dbj BAA91517.1	gb AAD34147.1 AF1 52097_1	emb CAA99731.1		gb AAC47967.1		gb AAF19255.1 AC0	04858_3				emb CAB55313.1		dbj BAA09762.1				gb AAB42266.1		:		
L-lactate permease Escherichia colil	rac protein kinase-beta [Homo sapiens]	(AK001138) unnamed protein product [Homo sapiens]	(AF152097) CGI-05 protein [Homo sapiens]	nuclear protein SA-1	Homo sapiens	C13F10.7 gene product	[Caenorhabditis elegans]	(AC004858) U1 small	ribonucleoprotein	1SNRP homolog;	match to PID:g4050087	[Homo sapiens]	(AJ132948) rfg7	protein [Homo sapiens]	product is related to	clathrin-associated	protein. [Homo	sapiens]	weak similarity to	Arabidopsis thaliana	ubiquitin-like protein 8	[Caenorhabditis	elegans]
blastx.2	blastx.2	blastx.2	blastx.2	blastx.2		blastx.2		blastx.2					blastx.2		blastx.2				blastx.2				
279	280	281	282	283		284	•	285					286		287				288				
996874	806966	997127	997165	997595		997862		997873					650866		215866				998533				
HHEHF49	нснсг36	НАНСК58	HETIJ06	HAPOE30		HRGDC33		HMTMB9	_				HFAAD07		HE8TG67				HACNC39				

686	664	466	721	1160	587		969	1,00	1894				. 1368	691	128	206	546	779	1702				115		000	1903	801	1669
75	47	2	995	1095	558		270	15	425				691	32	m	635	34	474	152	-			2			95	547	1454
100%	100%	%86	38%	54%	%02		36%		93%			,	100%	95%	%99	48%	%88	100%	%56				826		1	79%	%/9	21%
dbj BAA82666.1	emb CAB56776.1	gb AAD45825.1 AC0	04890 2	I			gb AAA74723.1		gb AAC73069.1				sp Q15352 Q15352				emb CAB65594.1		gb AAB80726.1				dbj BAA91931.1			gb AAB18198.1		
(AB008927) neuropsin type2 [Homo sapiens]	rab8 [Canis familiaris]	(AC004890) similar to	HUB1; similar to	BAA24380	(PID:g2789430)	[Homo sapiens]	histone H1-I [Volvox	carieri	(AF026124)	schwannoma-	associated protein [Mus	musculus]	SEP PROTEIN	(FRAGMENT).		-	(AJ250562) tetraspanin	protein [Homo sapiens]	(AF017790)	retinoblastoma-	associated protein HEC	[Homo sapiens]	(AK001832) unnamed	protein product [Homo	sapiens	p116Rip [Mus	musculus]	
blastx.2	blastx.2	blastx.2			<u>.</u>		blastx.2	,	blastx.2				blastx.2				blastx.2	-	blastx.2	,			blastx.2			blastx.2	t	
289	290	291					292		293				294				295		296				297			298		
998901	608866	896866					999124		999148			,	999157				999243		999313				822666			808666		
HCOQP78	HCGMA67	HSKHK19					HAGGR59		HOPKS83				HE8CY70				HPCTI53		HOPKN50				HAPAI17			HHAUV59		

18	1000315	299	blastx.2	(AK001770) unnamed	dbj BAA91897.1	36%	699	. 992
				protein product [Homo		27%	999	1379
			,	sapiens		79%	4	645
			1	1		39%	481	621
1000339	m	300	blastx.2	CRAG protein	emb CAA76938.1	42%	8	869
				Drosophila		%99	525	692
•				melanogaster]		92%	475	534
1000424 301	3	1	blastx.2	(AL117183) conserved	emb CAB54870.1	72%	55	720
				hypothetical protein		36%	755	994
				[Schizosaccharomyces				
				pombe				
1000582 302	30	2	blastx.2	(AJ387747) sialin [Homo sapiens]	emb CAB62540.1	100%	က	854
1000669 303	30	_	blastx.2	(AF176555) A-kinase	gb AAF07045.1 AF1	94%	9/	627
				anchoring protein 220	76555_1			
1000875 304	304	Τ.	blastx.2	(AK000462) unnamed	dbi BAA91181.1	41%	296	556
				protein product [Homo	-			
				sapiens]				
1001066 305	305		blastx.2	(AF047002)	gb AAD09608.1	%86	-	999
				transcriptional		-		
				coactivator ALY		-		
				[Homo sapiens]				
1001333 306	30	9	blastx.2	(AK000541) unnamed	dbj BAA91241.1	48%	40	237
				protein product [Homo sapiens]				
1001695 307	18	7	blastx.2	17-kDa protein [Homo	gb AAA36038.1	%66	127	621
				sapiens]				
1001901	3(	308	blastx.2	pol [porcine	emb CAA76582.1	41%	398	721
				endogenous retrovirus]		33%	25	423

HVVCB28	1001954	309	blastx.2	S19 ribosomal protein	gb AAA89070.1	100%	373	807
				[Homo sapiens]				
HC00S01	1002071	310	blastx.2	proliferation associated	emb CAA48137.1	100%	105	701
				gene (pag) [Homo				
20.0	,000001	,,,		3401013	11.1(D A A O1770 4 1)	7307	22	653
HDACA35	1002096	311	blastx.2	(AK001496) unnamed	dbj BAA91/24.1	13%	3	760
				protein product [Homo				
				sapiens]				
HOVDG59	1002328	312	blastx.2	(AK001610) unnamed	dbj BAA91787.1	100%	13	639
				protein product [Homo		78%	9	288
				sapiens				
HTJAD78	1002459	313	blastx.2	immonglobulin	emb CAB58438.1	%86	49	1041
				gamma-2 heavy chain				
				[Homo sapiens]				
HCDCF69	1002468	314	blastx.2	lysyl hydroxylase	gb AAA60116.1	%86	353	208
				[Homo sapiens]	,			
HPTTW90	1002479	315	blastx.2	Huntington's Disease	emb[CAA93701.1].	%66	<u>.</u>	356
				(HD) gene [Homo				
				sapiens]				
HSUBG36	1002492	316	blastx.2	snRNP E protein (AA	emb CAA31007.1	100%	1.9	342
				1-92) [Homo sapiens]				
HODFU72	1002527	317	blastx.2	(AB022660) SET-	dbj BAA82444.1	32%	22	689
				binding protein (SEB)				-
				[Homo sapiens]				
HCNSF57	1002545	318	blastx.2	immunoglobulin	emb CAA40940.1	%96	134	826
				lambda light chain	,			
				[Homo sapiens]				
HODJU13	1002546	319	blastx.2	IDN4-GGTR14	sp Q9Y6Y5 Q9Y6Y5	85%	7	106
				FROIEIN.				

1556	755				823	247	923		1400	1400				361		681	176	281	215	659	831		925		292		
207	174				407	209	153		90	8	•			98		244	3	e.	m	591	178		323		28		
%66 <sub>.</sub>	100%	) )			.91%	23%	100%		1000	100%				100%		100%	%85	45%	51%	41%	100%		100%		100%		
dbj BAA11748.1	ob A AC83802 1				emb CAB69299.1		gb AAA35822.1		1 100 4 4 4 60 60 41	emb[CAA45089.1]				gb[AAA60280.1]		gb AAA60583.1	gb AAB24264.2				gb AAA59505.1		dbj BAA05646.1		gb AAD15546.1		
nuclear protein, NP220	(AF007441)	phenylalanine-tRNA	synthetase [Homo	sapiens]	unnamed protein	product [unidentified]	folate-binding protein	precursor [Homo	sapiens	homologue to	elongation factor 1-	gamma from A.salina	[Homo sapiens]	ribosomal protein L37a	[Homo sapiens]	RPS16 [Homo sapiens]	HKR-T1 [Homo	sapiens	1		clathrin light-chain A	[Homo sapiens]	proteasome subunit	HsC7-I [Homo sapiens]	(AC004983) similar to	PID:g3877944 [Homo	sapiens
blastx.2	C apoly	7:47:57			blastx.2		blastx.2			blastx.2				blastx.2		blastx.2	blastx.2				blastx.2		blastx.2		blastx.2		-
320	271	741			322		323			324				325		326	327				328		330		332		
1002551	1002563	1007001			1002565		1002591			1002607				1002610		1002729	1002807				1002811		1003155		1003224		
HODIL25	תו וו/וחפלל	OCCUA OU			HPMJQ18	,	HLHCI46			HAOSD18	-			HACNG47		HOPJX95	HSCLR05				HVVA074		HVVBK18		HSCLM55		

1477	881	513	207	1084	1327	459	515	290	143	191	360	259	293	453	683	135	789		1165	533	1051	1060	369		
881	504	2	373	878	1121	343	18	362	n	135	265	200	171	277	141	10	1		518	135	524	524	22		
%66	%66	73%	100%	28%	79%	35%	93%	41%	51%	63%	51%	%02	%95	38%	100%	%69	%06		72%	79%	24%	23%	%18		
emb CAB63754.1	-			•			gb AAC04617.1	dbi BAA25253.1					gb AAF29584.1 AF1	13685_1	gb AAC37567.1	dbj BAA21615.1	emb CAA52378.1		gb AAC60300.1				dbj BAA91675.1		
(AL133630)	hypothetical protein	[Homo sapiens]	1				(AF026692) frpHE Homo sapiens	(AB012223) ORF2	[Canis familiaris]	1			(AF113685) PRO0974	Homo sapiens]	putative [Homo sapiens]	(AB005878) BYJ15 [Nicotiana tabacum]	DNA primase (p58	subunit) [Homo sapiens]	(AF027728) kinesin-	related protein	[Xenopus laevis]	1	(AK001410) unnamed	protein product [Homo	Tarbardan I
blastx.2		•					blastx.2	blastx.2					blastx.2		blastx.2	blastx.2	blastx.2		blastx.2				blastx.2	•	
333	<u> </u>				-		334	335					336		337	338	339		340				341		
1003706							1004480	1004583					1004619		1004625	1004627	1004631	,	1004632				1004633		
HFTI173							HNOKB73	HODFROK					HODJA76		09ХГДОН	HODEF10	HODFB03		HPMTN08				НОВЕН08		

758	142	208	2175	2150 2053	236	1238	1245	1292	400	963	963	453	453	453	444	408	453	453	276
165	405	89	1993	2055	3	435	1204	153	185	1	13	_	4	19	4	4	4		4
%86	52%	%26	52%	62% 87%	100%	%16	%99	100%	%08	%16	%68	21%	29%	53%	52%	28%	48%	43%	%59
gb AAC39906.1	dbj BAA91205.1	emb CAB52687.1			dbj BAA91965.1	emblCAA57684.11		gb AAA52471.1	gb AAA52360.1	pir S26650 S26650	-						,		
(AF069736) PCAF associated factor 65	(AK000496) unnamed protein product [Homo sapiens]	(AJ010089) GANP	protein [Homo sapiens]		(AK001892) unnamed protein product [Homo	onStaff() [Homo	sapiens]	c-fos protein [Homo sapiens]	Ral guanine nucleotide dissociation stimulator	DNA-binding protein 5	- human								
blastx.2	blastx.2	blastx.2			blastx.2	hlacty 2	7170000	blastx.2	blastx.2	blastx.2									٠
342	343	344			345	346	<u>}</u>	347	348	349	}								
1004635	1004643	1004648			1004660	1004887	1001001	1004950	1005153	1005236									
HEGBF25	HODJB51	HODEC38			HODIQ24	אאממעאנו	ÒCATA ATT	HTHDV01	HVVDJ95	HODIV29									• •

									_										_			_		_
444	441	1013	1015	889	727	889	111	749	737	740	740	205		403			2081	381	448	509			1037	603
1	25	309	2	107	107	155	28	069	717	720	717	89		7			411	40	377	435			573	136
41%	45%	71%	100%	%26	93%	33%	%88	70%	100%	100%	82%	%9L		%86			%66	%86	54%	100%		-	%76	%0%
		gb AAB50568.1	gb AAA75595.2	gb AAD00897.1								emb CAB09660.1		gb AAD40846.1 AF0	72441_1	-	dbj BAA91829.1			gb AAB49678.1	,		gb AAC50697.1	
		uridine kinase [Mus musculus]	tax1-binding protein TXBP151 [Homo sapiens]	(AF001628) interactor	protein AblBP4 [Homo	sapiens	1					nuclear autoantigen fo	14 kDa [Homo sapiens]	(AF072441)	calculcului omunig	protein caom i [momo sapiens]	(AK001676) unnamed	protein product [Homo	sapiens]	alphal A-voltage-	channel Homo	sapiens	SWI/SNF complex 60	KDa subunit [Homo
		blastx.2	blastx.2	blastx.2								blastx.2		blastx.2		•	blastx.2			blastx.2			blastx.2	
		350	351	352								353	,	354			355			356			357	
		1005359	1005384	1005511	•		•					1005843		1005974			1006018			1006055			1006142	
		HOELP29	HWLFG04	HYAAC49								HCOOA71		HOUFB45			HUSJI14			HMCDB21			HSDEY08	

403	377	773	418	172	699	1049	505	328	420	979	1410	533	611
158	105	999	323	44	4	237	146	2		n	628	m	201
47%	37%	27%	34%	%16	100%	27%	82%	100%	%66	64%	41%	44%	40%
				gb AAD31938.1 AC0 07055_3	dbj BAA91430.1	gb AAC71813.1	gb AAA20645.1	gb AAD44480.1	emb CAB70899.1	gb AAC69438.1	-		
sapiens				(AC007055) unknown [Homo sapiens]	(AK000927) unnamed protein product [Homo sapiens]	(AE001373) predicted secreted protein [Plasmodium falciparum]	light chain 3 subunit of microtubule-associated proteins 1A and 1B [Rattus norvegicus]	(AF078848) BUP [Homo sapiens]	(AL137735) hypothetical protein Homo sapiens	1(3)mbt protein	homolog [Homo	sapiens	
		•		blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2			
				358	359	360	361	362	363	364			
				1006215	1006250	1006317	1006399	1006445	1006470	1006483			
				HOOJT92	HNORE03	HPCTS21	HFATL31	HE2JE77	HCBNX87	HNTDJ68	-		

840	221	840	614	294	428		515		136	215	17	235	395	438	900	488	571			908			449		1229	1294		
631	9	628	459	109	393		06		17	126	247	435	514	316	26.	476	305	)		69			75		423	1220		
%09	55%	46%	28%	33%	20%		%86		%29	73%	83%	70%	81%	701/2	0/1/	%7.5	100%	2		27%			%66		35%	44%		
				emb CAA30276.1			gb AAA36547.1		gb AAF24054.1 AF0	90942 1	gb AAB66528.1			11:415 A A 02006 11	h.ocoscondian		SHA A DANNO 11 A F1	50100 1 100001 1 th	50100_1	gb AAA85705.1			gb AAD34131.1 AF1	51894_1	emb[CAB02879.1]			•
				heat shock protein	[Drosophila]	melanogaster]	ras-like protein [Homo	sapiens]	(AF090942) PRO0657	[Homo sapiens]	(AF009668)	polyprotein [multiple	sclerosis associated	/AV/00170\\	(ANNOC127) uniduica	protein product [Homo	(AE150100) small zing		finger-like protein [Homo sapiens]	SpZ12-1	[Strongylocentrotus	purpuratus]	(AF151894) CGI-136	protein [Homo sapiens]	predicted using	Genefinder; Similarity	to Yeast mitochondrial	1 1 yk432a4.3 comes
				blastx.2			blastx.2		blastx.2		blastx.2			bloom, 7	Ulasta.2		hlacty 7	Oldsta.4		blastx.2			blastx.2		blastx.2			
				365			366		298		368			360	202		370	2		371			372		373			
	,			1006512			1006635		1006858		1006943			1005052	5550001		1007230	0071001		1007941			1007976		1008013			
				HTRAA05			HMTAL96		HDTJP21		HISEQ81			TODETTO	מחיעטם		UOCDD18	110011		HODFP91			H6EDU06		HPCRD26			

HSIEH63   1008077   374   blasts.2   (AF007791) secreted   gb AAC77358.1    65%   87   554					from this gene. CDMA				
1008027   374   blastx.2 (AF007791) secreted   gb AAC77358.1    65%   87					EST yk432a4				
Carnent gland protein   XAG-2 homolog   XAG-2 homolog   XAG-2 homolog   XAG-2 homolog   Librato sapiens    1008154   375   blastx.2   IEF SSP 9502 [Homo gb AAA65201.1    100% 131   1008154   376   blastx.2   IEF SSP 9502 [Homo gb AAA65201.1    100% 131   1008299   379   blastx.2   IEF SSP 9502 [Homo gb AAA65201.1    94%   379   1203   379   1203   389   1351   1008299   379   blastx.2   IEF SSP 9502 [Homo gb AAB94805.1    94%   319   1008304   380   blastx.2   AB005878) BYJ15   Abj BAA21615.1    80%   328   22%   1351   1008314   382   blastx.2   IDN4-GGTR14   sp Q9Y6Y5 Q9Y6Y5   93%   380   IHOMO sapiens    I	HSIEH63	1008027	374	blastx.2	(AF007791) secreted	gb AAC77358.1	%59	28	554
TAG-2 homolog   TAG-2 homolog   Homo sapiens    Homo sapiens				•	cement gland protein				
Homo sapiens    Homo sapiens    Homo sapiens    1008071   375   blasts.2   PDI (E.C.S.3.4.1) [Bos gb AAA65201.1    100%   131					XAG-2 homolog				
1008171   375   blastx.2   PDI (E.C.S.3.4.1) [Bos   gb AAA30690.1    33%   81					[Homo sapiens]				
1008154   376   blasts.2   IEF SSP 9502 [Homo   gb AAA65201.1    100%   131	HPASD51	1008071	375	blastx.2	PDI (E.C.5.3.4.1) [Bos	gb AAA30690.1	33%	81	752
1008154   376   blastx.2   IEF SSP 9502 [Homo   gb AAA65201.1    100%   131					taurus				,
1008179   378   blastx.2   guarylate kinase   gb AAC37598.1    84%   889   1008299   379   blastx.2   bicaudal-D [Homo sapiens]   20%   319   72%   1203   40%   319   72%   1351   20%   328   328   1008304   380   blastx.2   AB005878) BYJ15   dbj BAA21615.1    80%   338   1008314   382   blastx.2   DN4-GGTR14   sp Q9Y6Y5 Q9Y6Y5   93%   34   blastx.2   CAF019386) heparan   gb AAB84388.1    100%   22%   22%   386   22%   340   blastx.2   CAF019386) heparan   gb AAB84388.1    100%   286   39%   30%	нсоон27	1008154	376	blastx.2	IEF SSP 9502 [Homo	gb AAA65201.1	100%	131	1315
1008179   378   blastx.2   guanylate kinase   gb AAC37598.1    84%   889					Sapicits				1000
1008299         379         blastx.2         bicaudal-D [Homo         gb AAB94805.1          94%         379           1008299         379         sapiens]         40%         319           1008304         380         blastx.2         (AB005878) BYJ15         db BAA21615.1          80%         38           1008314         382         blastx.2         IDN4-GGTR14         sp Q9Y6Y5 Q9Y6Y5         93%         3           1008324         383         blastx.2         pol gene protein; Xxx         gb AAA88026.1          76%         132           1008325         384         blastx.2         (AF019386) heparan         gb AAAB84388.1          100%         286           1008325         384         blastx.2         (AF019386) heparan         gb AAAB84388.1          100%         286	HCOPZ14	1008179	378	blastx.2	guanylate kinase [Homo sapiens]	gb AAC37598.1	84%	886	1023
1008325   384   blastx.2   chaptana   gb AAAB84388.1    1008%   1008	HODEC78	1008299	379	blastx.2	bicaudal-D [Homo	gb AAB94805.1	94%	379	1230
1008325   384   blastx.2   (AF019386) heparan   gb AAB84388.1    1008%   100	•				sapiens		%16	1203	1343
1008304   380   blastx.2   DN4-GGTR14   sp Q9Y6Y5 Q9Y6Y5   33%   135   1008324   383   blastx.2   DN4-GGTR14   sp Q9Y6Y5 Q9Y6Y5   93%   132   1008325   384   blastx.2   (AF019386) heparan   gb AAB84388.1    100% 226				٠	1 .		40%	319	744
1008304   380   blastx.2   chance   c							72%	1351	1470
1008325   384   blastx.2   AB005878   BY115   Bb AAB84388.1    1008325   384   blastx.2   CAF019386   blastx.3   cafacterase-1			,				70%	328	1188
1008304       380       blastx.2       (AB005878) BYJ15       dbj BAA21615.1        80%       38         1008314       382       blastx.2       IDN4-GGTR14       sp Q9Y6Y5 Q9Y6Y5       93%       3         1008324       383       blastx.2       pol gene protein; Xxx       gb AAA88026.1        76%       132         1008325       384       blastx.2       (AF019386) heparan       gb AAB84388.1        100%       286         sulfate 3-O-sulfotransferase-1       sulfotransferase-1							35%	1191	1343
1008304       380       blastx.2       (AB005878) BYJ15       dbj BAA21615.1        80%       38         1008314       382       blastx.2       IDN4-GGTR14       sp Q9Y6Y5 Q9Y6Y5       93%       3         1008324       383       blastx.2       pol gene protein; Xxx       gb AAA88026.1        76%       132         1008325       384       blastx.2       (AF019386) heparan       gb AAB84388.1        100%       286         sulfate 3-O-       sulfotransferase-1       sulfotransferase-1       sulfotransferase-1							21%	328	792
1008304         380         blastx.2         (AB005878) BYJ15         dbj BAA21615.1          80%         328           1008314         382         blastx.2         IDN4-GGTR14         sp Q9Y6Y5 Q9Y6Y5         93%         3           1008324         383         blastx.2         pol gene protein; Xxx         gb AAA88026.1          76%         132           1008325         384         blastx.2         (AF019386) heparan         gb AAB84388.1          100%         286           sulfate 3-O-         sulfotransferase-1         sulfotransferase-1         sulfotransferase-1         389         328							25%	856	1056
1008304         380         blastx.2         (AB005878) BYJ15         dbj BAA21615.1          80%         38           1008314         382         blastx.2         IDN4-GGTR14         sp Q9Y6Y5 Q9Y6Y5         93%         3           1008324         383         blastx.2         pol gene protein; Xxx         gb AAA88026.1          76%         132           1008325         384         blastx.2         (AF019386) heparan         gb AAB84388.1          100%         286           sulfate 3-O-         sulfotransferase-1         sulfotransferase-1							39%	328	396
1008314   382   blastx.2   IDN4-GGTR14   sp Q9Y6Y5 Q9Y6Y5   93%   3   1008324   383   blastx.2   pl gene protein; Xxx   gb AAA88026.1    76%   132     Homo sapiens    1008325   384   blastx.2   (AF019386) heparan   gb AAB84388.1    100%   286   sulfate 3-O- sulfate 3-O- sulfotransferase-1	HODEF29	1008304	380	blastx.2	(AB005878) BYJ15	dbj BAA21615.1	%08	38	133
1008314         382         blastx.2         IDN4-GGTR14         sp Q9Y6Y5 Q9Y6Y5         93%         3           1008324         383         blastx.2         pol gene protein; Xxx         gb AAA88026.1          76%         132           1008325         384         blastx.2         (AF019386) heparan         gb AAB84388.1          100%         286           sulfate 3-O-         sulfotransferase-1         sulfotransferase-1         sulfotransferase-1         100<					[Nicotiana tabacum]		22%	202	330
1008324         383         blastx.2         pol gene protein; Xxx         gb AAA88026.1          76%         132           1008325         384         blastx.2         (AF019386) heparan         gb AAB84388.1          100%         286           sulfate 3-O-         sulfotransferase-1         sulfotransferase-1	HODEF78	1008314	382	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	93%	, 3	101
1008325 384 blastx.2 (AF019386) heparan gb AAB84388.1  100% 286 sulfate 3-O-sulfotransferase-1	HODEL83	1008324	383	blastx.2	pol gene protein; Xxx [Homo sapiens]	gb AAA88026.1	%9 <i>L</i>	132	407
sulfate 3-0- sulfotransferase-1	HHPSH76	1008325	384	blastx.2	(AF019386) heparan	gb AAB84388.1	100%	286	1206
sulfotransferase-1		,		4	sulfate 3-0-				-
					sulfotransferase-1				

	emb CAA48048.1  29% 782 408 33% 661 407	gb AAA35654.1  93% 24 737	dbj BAA13071.1  97% 1 558	dbj BAA91131.1          66%         62         217           69%         3         71	gb AAA88038.1  65% 2 214 66% 183 341 67% 341 478	770 /002	go AAA320057.1	gb AAF24018.1 AF0 55% 217 104 90894 1 55% 323 216	dbj BAA91131.1      59%     1282     1106       55%     1115     990       54%     1113     1051	CTTT 0/10
										ļ
	emb CAA48	gb AAA356	dbj BAA130		gb AAA8803			gb AAF2401 90894_1		sp Q9Y6Y5 Q9Y6Y5
sapiens]	T2 [Mus musculus]	alternatively spliced [Homo sapiens]	matrix metalloproteinase, MT2MMP [Homo sapiens]	(AK000385) unnamed protein product [Homo sapiens]	unknown protein [Homo sapiens]	VINGE 71 1 22	Nrueppel-related DINA-binding protein [Homo sapiens]	(AF090894) PRO0113 [Homo sapiens]	(AK000385) unnamed protein product [Homo	IDN4-GGTR14
	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	1.1	Diastx.2	blastx.2	blastx.2	blastx.2
	385	386	387	388	390	2	391	392	393	394
	1008326	1008327	1008332	1008335	1008337	100001	1008343	1008349	1008350	1008358
	HBGBE52	HBQAB30	нг.нсв31	HPFDV51	норесіз.	71.11.11.11.11	HHFFKIO	HARAL81	HFTAU42	HETDA81

-	1008359	395	blastx.2	(AF062006) orphan G	gb[AAC28019.1]	45%	1	306
				protein-coupled				
				receptor HG38 [Homo			·	
HODEG86	1008379	397	blastx.2	(AK000385) unnamed	dbi BAA91131.1	55%	236	400
)				protein product [Homo		21%	424	546
				sapiens]				
HODFA57	1008396	368	blastx.2	retrovirus-related pol	pir A26718 A26718	36%	102	296
			•	polyprotein pseudogene - human 1		28%	. 17	. 67
HODFB31	1008401	399	blastx.2	(AL021768) ATP	emb CAA16931.1	52%	1	261
				binding protein-like				
HTEMP79	1008406	400	blastx.2	(AJ223782) CDC10	emb CAA11547.1	95%	374	628
		,	•	[Mus musculus]	-	51%	136	375
	,					94%	625	678
HODEIS9	1008423	401	blastx.2	(AJ237734) ribophorin	emb CAB54801.1	100%	967	1273
				II [Homo sapiens]		100%	1404	1859
				•		%16	1270	1404
						39%	1876	1959
•						30%	1145	1279
НОДЕЕ94	1008429	402	blastx.2	IDN4-GGTR14 PROTEIN.	\$20,60,000 s	100%	2	85
HPFCZ53	1008445	403	blastx.2	(AF176818)	gb AAD53289.1 AF1	%62	567	692
				transcription factor AP-	76818_1	93%	r.	296
				2 [Silurana tropicalis]				
HWACN7	1008764	404	blastx.2	(AF105261) natural	gb AAD32538.1 AF1	100%	174	1268
	,			killer cell receptor 2B4 Homo sapiens	05261_1		,	
HOFMU69	1009017	405	blastx.2	(AF077038) unc-50	gb AAD27771.1 AF0	%16	375	1151
1		]						

	859						914		349		427			390		<b>∞</b>				231	622			423	479		909
	182						3		99		555			73		127				55	449			127	96		
	%66						%68		85%		100%			74%		75%				100%	%09			%88	100%		%66
77038_1	emb CAB55700.1	•					emb CAA71519.1		gb AAA36649.1		gb AAC82536.1		-	emb CAA39515.1		emb CAB46381.1				dbj BAA02234.1	dbj BAA92096.1			dbj BAA05679.1	dbj BAA23363.1		gb AAA36764.1
homolog	(AL049610)	dJ1055C14.1	(transcription	elongation factor A	(SII)-like 1) [Homo	sapiens	CDV-1R protein [Mus	musculus]	pre-mRNA splicing	factor [Homo sapiens]	(AC005034) gc-rich	sequence dna-binding	factor [Homo sapiens]	protein Htf9C [Mus	musculus	(AL031985)	dJ228H13.1 (similar to	Ribosomal protein	L21e) 1	E1A-F [Homo sapiens]	(AK002129) unnamed	protein product [Homo	sapiens]	BST-2 [Homo sapiens]	OTK27 [Homo	sapiens]	E2A/PRL fusion
	blastx.2	, '					blastx.2		blastx.2		blastx.2		·	blastx.2		blastx.2				blastx.2	blastx.2	٢		blastx.2	blastx.2		blastx.2
	407						408		409		411			412		413				414	415			416	417		418
	1009343		•		·		1009349	ē	1009362		1009388			1009398		1009403				1009414	1009453			1009479	1009482		1009833
	HETBR71			-			HE2ES17		HELHIM06		HE2ES61		•	HE2SO43		HLHCI07				HTTBR65	HPFCV71			HCABR46	HCRCB80		HPMLW78

	1 123	366 205 505 416	1 603	271 1155	689 09	2 337	171 608	63 236	7007
	%06	77% 35%	%86	100%	%69	100%	%66	100%	,600
	emb CAA06471.1	gb AAA36589.1	dbj BAA13443.1	gb AAA58392.1	emb CAA42198.1	emb CAA09425.1	dbj BAA23735.1	gb AAC39909.1	
protein [Homo sapiens]	(AJ005324) glutamate permease [synthetic construct]	ribosomal protein [Homo sapiens]	ribosomal protein L14 [Homo sapiens]	bcl-1 [Homo sapiens]	hypoxanthine (guanine) phosphoribosyltransfer ase [Cricetulus longicaudatus]	(AJ010953) putative Ca2+-transporting ATPase [Homo sapiens]	(AB009282) cytochrome b5 [Homo sapiens]	(AF054175) mitochondrial proteolipid 68MP homolog [Homo	
	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	
	420	421	422	423	424	425	426	427	
	1009854	1009857	1009918	1009949	1010157	1010299	1010400	1010525	
	HODJX27	HODJV85	H00J038	HAOSI69	HSDIY67	HSDZM65	НРООС39	HE2PS15	

1561 949	1207	1274	1278	730	1630	1100	243	775	1603	1103	692	1612	1612	775	1600	1091	709	1085	1094	1097	727	1088	1085	1007
1442 692	290	1203	1246	236	1100	735	_	200	1100	753	203	1148	1160	284	1091	747	302	750	738	747	239	099	747	750
32% 27%	%86	%89	100%	85%	77%	82%	%02	23%	23%	34%	25%	73%	79%	27%	27%	31%	19%	27%	27%	30%	792	27%	75%	33%
	gb AAC39524.1			dbj BAA19002.1																				
microtubule associated proteins; cDNA EST 1 1 EMBL:D37339 comes from this gene; cDNA EST EMBL:D6742	SAS [Homo sapiens]	1		AZ-1 [Mus musculus]	1					-						•	-			-	-			•
·	blastx.2			blastx.2	,				·											,				
	429			430																				
	1010698			1011090	,																			
	HNOJG33			HPDVK48																				

1331	1061	691	1106	730	730	249	. 938	246	673	902	273	1628	152	234	326	09	3	541	141	623			533	205		551	123	883
780	735	305	750	413	413	151	747	106	401	533	26	30	120	7	237			152	97	09			240	29		72	28	62
70%	23%	25%	22%	27%	78%	45%	32%	31%	23%	25%	24%	%66	54%	82%	73%	35%		%99	%99	%68			43%	44%		46%	43%	46%
		,										gb AAC50152.1		dbilBAA01393.11				emb CAA71771.1		emb CAA68868.1			emb CAA61914.1			emb CAA43408.1		gb AAC77439.1
			-									hypoxia-inducible	factor 1 alpha [Homo	2-oxoglutarate	dehvdrogenase	precintor (Homo	sapiens]	unnamed protein	product [Bos taurus]	coxsackie and	adenovirus receptor	protein [Homo sapiens]	interferon alpha /beta	receptor [Homo	sapiens]	GM2-activator protein	[Homo sapiens]	(AF039584) decay
į		-						,				blastx.2		blastx 2			-	blastx.2		blastx.2			blastx.2			blastx.2		blastx.2
											•	431		432	! !			433		434			435			436		437
				-								1011186		1011209	1			1011303		1011315	•		1011316			1011321		1011332
									,			HNORJ10		HPDRG92				HOFMO81		HOFNF27	•		HOFND52			HOFNL96		HOFNF53

1706	784	1101	143	1249	•		282	736	88	450	605	552	970	,		1482		266		942	942	534	537	537	549	537
1155	191	880	66	377			88	602	70	52	276	124	224			229		114		202	235	229	229	202	232	235
41%	28%	32%	75%	%09			%98	%88	82%	25%	%06	100%	93%			%66		100%		42%	45%	25%	46%	20%	46%	47%
	-		-	emb CAA08796.1			gb AAD17527.1					dbj BAA01457.1	dbj BAA11829.1			dbj BAA11829.1		gb AAD27778.1 AF0	77045_1	emb CAA37624.1		-				-
accelerating factor	soluble-form precursor;	CD55 [Rattus	norvegicus]	(AJ009698) embigin	protein [Rattus	norvegicus	(AF061738) leucine	aminopeptidase [Homo	sapiens	1		midkine [Homo sapiens]	collagen binding	protein 2 [Homo	sapiens]	collagen binding	protein 2 [rround sapiens]	(AF077045) ATP	synthase epsilon chain [Homo sapiens]	type X collagen [Bos	taurus	1			t	
				blastx.2			blastx.2					blastx.2	blastx.2			blastx.2		blastx.2	,	blastx.2						
	r			438			439					440	441			442		443		444						
				1011360	٠.		1011499					1011537	1011607	· ·		1011608		1011755		1011773						
				HOFMU61			HOFOF35					HULF137	HOFME75			HOPKO74	,	HCBBA51	· · ·	HDHEB13						

534	549	537	537	534	537	537	534	537	534	534	534	750	537	750	534	549	537	277	130	277	248		817		180		
229	229	235	232	199	211	235	235	226	235	226	202	235	235	235	232	202	283	53	20	47	75		20		4		
45%	45%	46%	46%	45%	48%	46%	46%	47%	45%	44%	45%	35%	45%	34%	42%	40%	48%	32%	20%	31%	%16		100%		%6 <i>L</i>		
			-																	•	emb CAB71156.1		emb CAA91556.1		gb[AAB34266.1]		
							,							-					•		(AJ271158) DAPIT	protein [Rattus norvegicus]	CLC-7 chloride	channel protein [Homo	scleraxis=basic helix-	loop-helix transcription	Idoloi Limos, vinor, y v.,
																	_				blastx.2		blastx.2		blastx.2		
									*												445		446		447		
			•								-										1011821		1011830	-	1011840		
																			-		HDTMG36		HVVCJ38		HPAMY22		

	727	692	425	905	1105	420	1236	1245	1257	1218	1212	1459	925		82
	137	72	9	96	125	64	769	762	992	992	925	1238	392		2
	100%	52%	94%	%66	%16	40%	81%	31%	78%	27%	24%	22%	100%		%68
	gb AAF29114.1 AF1 61499_1	gb AAF16704.1 AF1 17582_1	dbj BAA91124.1	emb CAB55934.1	gb AAA03587.1	gb AAA79999.1	gb AAA36771.1		-				gb AAA58687.1		emb CAB69195.1
Peptide, 207 aa] [Mus sp.]	(AF161499) HSPC150 [Homo sapiens]	(AF117582) calcyphosine-like protein [Manduca	sextal (AK000376) unnamed protein product [Homo	(AL117452) hypothetical protein [Homo sapiens]	TB1 [Homo sapiens]	unknown [Saccharomyces cerevisiae]	tropomyosin [Homo	CTTAIL					IFN-alpha responsive transcription factor	Homo sapiens	unnamed protein product [unidentified]
	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2						blastx.2		blastx.2
	448	449	450	451	452	453	454						455		457
	1011847	1011883	1011901	1011919	1011948	1011966	1012005						1012064		1012136
	HE9CP86	HPDOU46	HFCDW73	НОУЕВ13	HPAMS93	HCRBN71	HCRNC60						HSPSJ24		HOVDZ22

1306 646	691	382	834	319	990	310	731	1716	300
2 2	101	23 601	307	71	. 1	2	3	64	452 550
97%	%66	33% 27%	94%	%86	%26	%86	%86	%66	64% 41%
gb AAA80488.1	gb AAA66351.1	dbj BAA91635.1	emb CAA25141.1		gb AAA79184.1	emb CAA94861.1	emb CAA50574.1	gb AAA36458.1	gb AAF22026.1 AF1 18094_21
100 kDa coactivator [Homo sapiens]	TB2 [Homo sapiens]	(AK001339) unnamed protein product [Homo sapiens]	DÇ classII	histocompatibility antigen alpha-chain [Homo sapiens]	DNA-PK [Homo sapiens]	inositol 1,4,5- trisphosphate receptor type 2 [Mus musculus]	peroxisomal acyl-CoA oxidase [Homo sapiens]	p78 protein [Homo sapiens]	(AF118082) PRO1902 [Homo sapiens]
blastx.2	blastx.2	blastx.2	blastx.2	,	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2
460	461	462	463	,	464	465	466	467	469
1012454	1012459	1012469	1012482		1012519	1012536	1012542	1012545	1012599
HCONM62	HOGEU69	HVVBD93	HCOMV86		HCONJ23	HVVBL04	HVVAF65	HCONN76	HODEG95

	1567	643	709	527		1099	1701		9,5	000				2036	2856	1877	2252	2015	2078	2030	2021	1829	2018	1877	2039	1883
	89	101	648	48		4	1102			4/		-		24	2032	141	123	222	135	117	153	117	126	117	69	126
	100%	%86	93%	100%		%66	%66		,	100%				%56	%16	27%	22%	23%	23%	22%	23%	23%	22%	70%	22%	19%
	emb CAA30314.1	emb CAA53384.1	emb CAA55046.1	emb CAA62013.1		gb[AAD08640.1]				dbj BAA22054.1				emb CAA53052.1	-										-	
	C1 inhibitor [Homo sapiens]	protein kinase C mu [Homo sapiens]	amiloride binding	NBK [Homo sapiens]		(AF026851)	cytochrome oxidase	assembly factor [Homo	sapiens	(AB006202)	cytochrome b small	subunit of complex II	[Homo sapiens]	giantin [Homo sapiens]	1						·					
	blastx.2	blastx.2	blastx.2	blastx.2		blastx.2	٠			blastx.2				blastx.2												
,	470	472	473	474		475				477				478	:											
	1012600	1012645	1012646	1012652		1012654				1012665				1012668												
	HCOOX52	HVVBK78	HVVBK73	нсоммз	5	HVVBJ28				HVVAF41	•			HVVAS32										•	,	

				_			_																_	_				
1994	2039	2622	117	2700	2631	2628	2625	2616	2652	2538	2625	2634	2622	2694	2559	2715	2313	2610	2628	2565	2238	136	3910	3901	2616	3057	982	
441	1281	2014	43	2437	2071	2125	2143	2128	1987	2032	2140	2206	2035	2053	1987	2104	2032	2065	2152	2032	2080	110	3779	3833	2035	2905	134	
22%	20%	23%	84%	34%	22%	70%	24%	23%	23%	21%	24%	70%	23%	21%	24%	70%	25%	19%	19%	70%	78%	100%	22%	43%	21%	27%	100%	
												-					-				,						gb AAB93872.1	
																	•		•								voltage dependent	anion channel lorin 5 [Homo sapiens]
										-	,				•												blastx.2	
								,																			479	
										_							٠										1012678	
										,										-							HVVAQ70	

573	573	1990	2961	1155	1306	1375	1376	553		454			653		1605	203	1389	1407	1395	1605	1605	1653	1615	1675
<i>L</i> 9	67	302	2350	1	1142	1310	1332	113		2			e		205	69	1186	1186	1168	1195	1183	1375	1313	1490
%86	%86	%66	%66	%66	%26	54%	%09	48%		100%			.%26		%66	100%	43%	38%	34%	78%	24%	79%	23%	30%
gb AAB50715.1		gb AAA97878.1		gb AAA58391.1				emb CAA94699.1		emb CAB56526.1			dbj BAA91330.1		gb AAD56725.1									
smooth muscle myosin	light chain kinase, smMLCK [C-terminal] 1 1	specific 116-kDa	vacuolar proton pump subunit [Homo sapiens]	receptor kinase [Homo	sapiens			agpet8 protein.	[Schizosaccharomyces pombe]	(AL035593) dJ310J6.1	(novel protein) [Homo	sapiens	(AK000703) unnamed	protein product [Homo sapiens]	(AF124727) acinusS	Homo sapiens	1							
blastx.2		blastx.2		blastx.2				blastx.2		blastx.2			blastx.2		blastx.2						•			
480		481		482				483		484			485		487									
1012684	-	1012693		1012700				1012711		1013085			1013213		1013288									
HVVAQ22		HTAES83		HOCMIN67				HAPOW35		HOVJM48			HBJHY84		HFIAS44		,							

						40%	1112	1207
HHAUD68	1013349	488	blastx.2	non-histone	gb AAB53427.1	100%	269	538
				chromosomal protein	,			
HEEAA89	1013436	489	blastx.2	(AF071172) HERC2	gb AAD08657.1	%86	43	675
				[Homo sapiens]		100%	2	46
HNTAK22	1013524	490	blastx.2	(AF053944) aortic	gb AAC25585.1	%66	2	3175
				carboxypeptidase-like		34%	2	853
				protein ACLP [Homo		32%	53	853
				[sapiens]		27%	70	763
			····			27%	3	305
						25%	6	341
HOVBX78	1013687	491	blastx.2	(AK001751) unnamed	dbj BAA91882.1	%86	281	637
-				protein product [Homo		%88	. 633	707
				sapiens		47%	649	750
HVVAW7	1013740	492	blastx.2	elongation factor 2	emb CAA35829.1	%66	139	516
4				[Homo sapiens]		%06	5	136
HSPSF84	1013853	493	blastx.2	heat shock protein [Drosophila	emb CAA30276.1	40%	165	440
2010				melanogasterj				
HPAMV95	1014003	494	blastx.2	metalloproteinase	gb AAA59581.1	100%	54	713
				[Homo sapiens]		<del></del>		
HOVBX22	1014041	495	blastx.2	(AK000496) unnamed	dbj BAA91205.1	%09	317	183
			-	protein product [Homo	-	40%	159	29
2) 22	-			sapiens]		63%	181	149
HPDKB63	1014204	496	blastx.2	zinc finger protein	gb AAA93261.1	%09	2	781
				C2H2-25 [Homo		%59	7	646
				sapiens]	•	%65	7	629
						23%	. 2	99/

99/	775	313	232	2467	1741	2434	2413	1624	890	123	2299	380	1061	352	167	480	794		158	112	48	1086	1206	109	1106
47	20	7	2	2291	416	1535	1574	536	168	1	83	3	429	176	6	352	75		328	246	110	106	619	35	1083
46%	46%	%89	%99	%86	%66	85%	36%	33%	100%	95%	100%	100%	73%	77%	73%	44%	100%		53%	24%	85%	100%	31%	%96	100%
				emb CAA71575.1	gb AAA58683.1		•		dbj BAA32209.1		dbj BAA06338.1	emb CAA86598.1	gb AAF13872.1				gb AAD49745.1 AF1	72066_1	dbj BAA91131.1			dbj BAA90992.1			
				fused-ccdB Escherichia coli]	interferon-gamma	induced protein [Homo	sapiens		(AB014888) MRJ	Homo sapiens	glycyl tRNA synthetase Homo sapiensl	SOX9 [Homo sapiens]	(AF180801)	peroxisomal long chain	acyl-CoA thioesterase	Ib [Mus musculus]	(AF172066) retinoic	acid repressible protein	(AK000385) unnamed	protein product [Homo	sapiens	(AK000178) unnamed	protein product [Homo	sapiens	
				blastx.2	blastx.2				blastx.2	•	blastx.2	blastx.2	blastx.2			•	blastx.2		blastx.2			blastx.2		,	
				497	498				499		200	501	502				504		505			206		٠	
				1014252	1014432				1014485		1014646	1014730	1014754				1014869		1015010			1015024			
				HNHGJ66	HDPPN96				HPCTH41		HPCTY73	HCOPO33	HOEBR36				HOEER36		HE8OX75			HVASI06			

215		615	319	690 543	. 61	364	1164	1204	971	1263 1736	602
3		<b>.</b> —	5	136 136	298	125	934	41	159	991	30 613
64%		%66	67%	40% 41%	%86	27%	%86	%66	33%	30%	95%
dbj BAA91118.1		emb CAB70908.1	dbj BAA91205.1	gb AAD35130.1 AE0 01691_4	dbj BAA35276.1	dbj BAA91131.1	sp O15532 SELW_H UMAN	gb AAA51597.1	emb CAB11184.1	-	dbj BAA91623.1
(AK000370) unnamed	protein product [Homo sapiens]	(AL137756) hypothetical protein [Homo sapiens]	(AK000496) unnamed protein product [Homo sapiens]	(AE001691) conserved hypothetical protein [Thermotoga maritima]	Lipoprotein RlpA precursor. [Escherichia coli]	(AK000385) unnamed protein product [Homo sapiens]	SELENOPROTEIN W.	alcohol dehydrogenase class III [Homo sapiens]	coronin-like protein [Schizosaccharomyces	Гэотгод	(AK001322) unnamed protein product [Homo
blastx.2		blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2		blastx.2
507		208	509	510	511	512	513	514	515		516
1015059		1015093	1015133	1015143	1015204	1015304	1015324	1015343	1015360		1015430
HDPXP07	,	не2Кн02	HSPSI60	НОСОС26	HHEDC05	HODES86	HOPJU57	HVCAC71	HSXC055		HLWDB78

				sapiens				
HPCQU04	1015563	517	blastx.2	(AF093414) estrogen	gb AAC77437.1	%86	315	1232
				response element		73%	1232	1390
				binding protein		77%	1309	1362
				[Saguinus oedipus]		30%	282	518
HDPAT52	1015574	518	blastx.2	(AF056191) TPA	gb AAC12944.1	%66	122	1054
				inducible protein		45%	290	1054
				[Homo sapiens]	-	45%	467	1018
				1		38%	458	1030
					-	37%	467	1030
						37%	473	1024
						36%	473	1024
						34%	467	1024
HAOSL81	1015620	519	blastx.2	P24 protein [Mus	dbj BAA18947.1	41%	139	549
				musculus		32%	815	970
HIMWIU46	1015814	520	blastx.2	(AF148457)	gb AAF04487.1 AF1	%66	232	1152
				heterogeneous nuclear	48457_1			
				ribonucleoprotein,		Ţ	,	
				alternate transcript				
HSXC019	1015994	521	blastx 2	(AC006486)	ob/AD11988 11	%06	3	1175
) · · · · · · · · · · · · · · · · · · ·				BC85722 1 [Homo		37%	088	1203
				sapiens		25%	30	515
				7		762	595	867
			,			30%	15	299
						28%	63	284
						25%	523	888
						47%	341	397
HNOAG06	1016272	522	blastx.2	(AF001947) U4/U6-	gb AAC09069.1	100%	340	546
				associated to 22				

		_															,										
	089	1313	010	710	1222	066		ě		726			618			1196	722	1008	32	2063					2123	3048	1166
	24	69	5	00	1058	196				247			82			225	3	712	3	255					303	2527	1083
	75%	<b>40%</b>	262	%69	48%	100%				73%			%66			100%	47%	%56	%06	%66	_				%66	100%	35%
	gb AAF29566.1 AF0 95446 1	OH A D11628 1	golvan 1 1020:1			dbj BAA76400.1				gb AAF31432.1			dbj BAA91901.1			gb AAC16923.1		emb CAA62635.1		emb CAB51858.1					emb CAA33261.1	•	
splicing factor [Homo sapiens]	(AF095446) syndesmos [Gallus gallus]	(AE060570) #ig. 1	(AL 0007/0) 118-1	protein [Mus musculus]	1	(AB016533) nuclear	protein containing a	WW domain (Npw38)	[Homo sapiens]	(AF213393) ATP-	binding cassette protein	[Mus musculus]	(AK001775) unnamed	protein product [Homo	sapiens]	(AF027299) protein	4.1-G [Homo sapiens]	seryl-tRNA synthetase	[Homo sapiens]	(AJ132637) ATP-	dependent	metalloprotease	YME1L [Homo	sapiens	precursor polypeptide	(AA -21 to 782) [Homo	sapiens
,	blastx.2	Flooty 7	Uldsta.2			blastx.2				blastx.2			blastx.2			blastx.2	٠	blastx.2		blastx.2					blastx.2		
	523	20.4	177			525				526			527			528		529		530					531		
	1016351	1016740	1010/40			1016768				1016939			1017051			1017227		1017374		1017461					1017565		
	HE2KN09	THOMITEO	HISDRIS 0CHUCHI			HSPSB62				HE2FR37			HBJHU33			HCOOZ88	,	HNTSV21		HNORH33					HUFEF35		

HIPCG39	1017694	532	blastx.2	(AF118078) PRO1848	gb AAF22022.1 AF1	%59	17	139
			:	[Homo sapiens]	18094 17	45%	142	240
HISBM03	1017772	533	blastx.2	(AF092576) translation	gb AAC84044.1	100%	751	924
				initiation factor ell 3				
HOFAA79	1017801	534	blastx.2	(AF134404) delta-6	gb AAD31282.1 AF1	%88	14	532
		,		fatty acid desaturase	34404_1	83%	505	885
				[Homo sapiens]				
HPRAJ96	1017825	535	blastx.2	growth-regulating	gb AAA18898.1	100%	069	824
				protein [Homo sapiens]		100%	653	685
HBXFX71	1018032	536	blastx.2	(AF071081) proline-	gb AAD41594.1 AF0	32%		262
				rich mucin homolog	71081_1	30%	_	633
				[Mycobacterium tuberculosis]				
HMVDD8	1018080	537	blastx.2	(AF161477) HSPC128 [Homo sapiens]	gb AAF29092.1 AF1 61477 1	%66	23	745
HVVDH50	1018226	538	blastx.2	zyxin [Homo sapiens]	emb CAA64447.1	100%	143	1327
			-	1		100%	1330	1857
	•		<u></u>			32%	1303	1455
	******				,	21%	662	1336
						32%	134	346
		ļ				45%	1822	1914
						24%	5	295
HINNBT57	1018243	539	blastx.2	(AK000372) unnamed	dbj BAA91120.1	24%	194	45
			· ·	protein product [Homo		78%	355	230
				sapiens		30%	363	244
HCONJ11	1018459	540	blastx.2	(AF083385) 30kDa	gb AAC64086.1	100%	186	668
				splicing factor; SPF 30 [Homo sapiens].				
HCQAW6	1018501	541	blastx.2	(AK000010) unnamed	dbj BAA90881.1	100%	104	436

1293	1455	1059	792	711	810	1204	2600	1800	2486	246	1237	1243	1183	1156	2588	1147	1195	1195	1201	1249	2531	1746	1791	1767	1198	1788	2588	1204	100
1198	1381	409	418	394	418	332	1.803	1204	1725	1.9	332	335	341	332	1803	332	332	332	332	299	1734	1204	1207	1219	335	1258	1794	491	1
100%	%96	%86	%95	47%	48%	%66	100%	100%	76%	63%	23%	23%	25%	23%	23%	22%	22%	25%	23%	23%	22%	23%	27%	21%	22%	30%	22%	23%	
		emb CAA50897.1				emb[CAB05105.1]										•		•		-	_		-						
protein product [Homo	sapiens]	almost identical to	nRNP M protein,	acc.L03532 [Homo	sapiens]	dJ68O2.2 (myosin,	heavy polypeptide 9,	non-muscle) [Homo	sapiens]	ı			•								• .								
		blastx.2				blastx.2								,				,											
		542				543																							
		1018772		-		1018802				·			•																
8		HVVCY25		,		HCOMB65																							

1824	1815	470	1198	919	1800	1246	1773	1210	1791	1788	2435	1249	2477	1791	2471	2489	1785	1237	1794	2486	2480	1800	1872	1788	1776	1785	1800	2462	1800
1291	1285	138	332	290	1192	338	1219	353	1204	1219	1809	320	1806	1204	1806	1809	1207	332	1207	1881	1833	1207	1219	1195	1219	1339	1222	1806	1210
23%	25%	40%	22%	23%	23%	75%	18%	22%	25%	72%	22%	23%	23%	79%	23%	18%	21%	18%	19%	27%	22%	22%	23%	70%	23%	23%	79%	79%	23%
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1788	1803	1767	1183	1473	1440	1800	228	1803	237	216	225	401	234	344	1305	387	294	295	131	349	128	380	861				945
1204	1237	1189	611	1228	1222	1714	29	1684	115	61	1.9	258	34	249	1192	121	118	149	n	284	42	282	151			-	733
72%	23%	18%	72%	25%	762	31%	35%	27%	31%	78%	79%	24%	19%	78%	79%	23%	. 61%	%69	62%	26%	53%	47%	%66				45%
			-					•	-				,			gb AAC08737.1			•	٠			gb[AAC12956.1]				emb CAA19575.1
				,	•											(AF010144) neuronal	thread protein AD7c-	NTP [Homo sapiens]	1			•	(AC004537) similar to	tumor suppressor	AF044076	(PID:g2829208) Homo saniens1	(AL023859) trna-
																blastx.2							blastx.2				blastx.2
	_															544	•						545		,		546
				·												1018907			•				1018943				1019326
																HVVCF30				,			HODBV21				HCHIMD81

423	1192	607	704	220			919	1235	. 468		830	,	2075	731	8	121	1311	1730	1984	751	
85	110	314	648	13	-		134	918	103		234		276	72	_	89	738	1146	1871	131	
29%	100%	41%	42%	%66			100%	%66	100%		%86		48%	34%	20%	63%	%66	<b>78</b> %	45%	· 1:00%	
	emb CAA42641.1	dbj BAA25253.1		emb[CAB44749.1]	-		gb AAF29106.1 AF1	61491_1	gb AAC05810.1		dbj BAA91259.1		emb CAA42610.1				emb[CAB70844.1]			gb AAA59930.1	
splicing endonuclease subunit [Schizosaccharomyces pombe]	phosphate carrier protein [Homo sapiens]	(AB012223) ORF2	[Cams laminans]	(AL035494)	dJ635G19.2.1 (novel	protein (isoform 1)) [Homo sapiens]	(AF161491) HSPC142	[Homo sapiens]	(AC002394) Unknown	gene product [Homo	(AK000566) unnamed	protein product [Homo sapiens]	zinc finger protein	[Rattus norvegicus]	1		(AL137618)	hypothetical protein	[Homo sapiens]	CCAAT-box DNA binding protein subunit	Uniding provide success of
	blastx.2	blastx.2		blastx.2			blastx.2		blastx.2		blastx.2		blastx.2				blastx.2		·	blastx.2	
	547	548		549			550	•	551		554		555				556			557	
	1019338	1019409		1019585			1019608		1019749		1019892		1019942				1020007			1020130	
	HAZAR95	HMWFS51		HE8SD82			HSPSN08		HVCAH24		HJPCF71		HVCAE76				HOCMH14			HPDRZ03	

	2024	3636	3940	1758	1841	436	569	137	675		684	624	624	684	624	714	969	624	714	654	654	969	624	783	118	
	3646	3881	3993	1832	1888	11	426	3	169		19	<i>L</i> 9	29	29	29	29	19	29	49	<i>L</i> 9	2	2	184	184	186	
	93%	826	100%	45%	37%	%66	93%	%89	%86		33%	35%	34%	32%	34%	32%	31%	32%	73%	31%	30%	78%	34%	31%	27%	
	gb AAA53571.1					gb AAF09482.1 AF1	91018_1	gb AAF24054.1 AF0 90942 1	gb AAC64085.1		emb CAB62280.1	•	-				-	•	·				-	•	emb CAA22127.1	,
NF-YB [Homo sapiens]	protein p84 [Homo	sapiens	;			(AF191018) E2IG3	[Homo sapiens]	(AF090942) PRO0657 [Homo sapiens]	(AF083384) 45kDa	splicing factor; SPF 45 Homo sapiens	(AJ242540)	hydroxyproline-rich	glycoprotein DZ-	HRGP [Volvox carteri	f. nagariensis]										(AL033534)	hypothetical serine-rich secreted protein
,	blastx.2					blastx.2		blastx.2	blastx.2		blastx.2								•	•			•		blastx.2	
	558					559		260	561		562														563	
	1020180					1020832		1020841	1020852		1020878								,						1020904	
	HOCPO73	•				HNKDT10		HWHGO2 5	HWMNE3		HUSYJ75					•									HSDFS07	

	305	1649	937 1227 53	614	230	268	689	Э	339	1225	1327	950	1522	1484
	183	936	20 949 15	3	159	429	210	209	22	1130	890	417	1277	1344
,	%56	100%	89% 89% 100%	85%	100%	75%	30%	100%	%09°	43%	78%	24%	30%	38%
	emb CAB55759.1	emb CAA80599.1	gb AAF34240.1 AF0 75704_1	gb AAD18083.1 AA D18083	gb AAC59341.1	dbj BAA91205.1	emb CAB66159.1	gb AAA79814.1	dbj BAA91298.1		-	-		
[Schizosaccharomyces	(AJ245905) HSBP1- like protein [Chlorocebus aethiops]	hnRNP G protein [Homo sapiens]	(AF075704) neuronal glutamine transporter [Rattus 1]	(AF129756) G4 [Homo sapiens]	(AF038616) small tumor anitgen t-ag  Simian virus 40	(AK000496) unnamed protein product [Homo sapiens]	(AJ011376) hypothetical protein [Homo sapiens]	ORF_0109 Escherichia coli]	(AK000633) unnamed	protein product [nomo sapiens]	1			
	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2				1	
	564	565	999	292	999	569	570	571	572					
13 13	1021208	1021323	1021327	1021661	1021666	1021682	1021759	1021794	1022018					
	HCOPC09	HVVBT22	HAMFW6 6	HPMBW8 6	HOFMK02	HOUHK71	HCOOW2	HACMT02	HISDS67					

1372	682	1455	1193	1319	2421	1585	1770	2211	1506	1917	1966	1536	1813	1063	2440		840	435	222		836	1570	445	95		1072		247	
1232	290	1285	1143	252	1765	1316	1573	1744	1417	1744	1736	1447	1718	. 38	2402		445	115	43		3	839	101	33		176		. 5	
27%	48%	78%	41%	%65	33%	31%	39%	21%	46%	29%	27%	38%	36%	%26	92%		46%	43%	23%		100%	100%	%16	100%		%66		100%	
				gb AAC00620.1									•	dbj BAA91548.1			gb[AAA62280.1]				gb AAD01548.1		gb[AAC31609.1]			emb CAB09725.1		emb CAB43242.1	
				(AC002291) Similar	ATP-dependent RNA	Helicase [Arabidopsis	thaliana				,			(AK001197) unnamed	protein product [Homo	sapiens	epidermal growth	factor receptor kinase	substrate [Homo	sapiens]	(AF015040) NUMB	protein [Homo sapiens]	(AF081280)	nucleoplasmin-3	[Homo sapiens]	ribonuclease HI large	subunit [Homo sapiens]	(AL050022)	hypothetical protein
				blastx.2										blastx.2			blastx.2				blastx.2		blastx.2			blastx.2		blastx.2	
				573										574			575				929		577			278		280	
			•	1022037										1022059			1022082				1022162		1022167			1022313		1022663	
				HOVAA59						•				HOCPL72			HCOMIM0	5			HLYDC86		HTLEP21			HVCAS77		HSKJP93	

				[Homo sapiens]				
HAZAA64	1022719	581	blastx.2	predicted using Genefinder; Similarity	emb CAA99938.1	43%	304	705
				to Prototheca 1 1 gene;				
				comes from this gene; cDNA EST vk38				
HSEBD72	1022904	582	blastx.2	(AF044773) breakpoint	gb[AAC08964.1]	%68	164	280
			:	cluster region protein 1 [Homo sapiens]				
HDPYE27	1022911	583	blastx.2	(AF062346) zinc finger	gb AAC42601.1	100%	428	1066
				protein 216 splice		·		
				variant i [riomo	****			
HCRQL51	1022997	584	blastx.2	PEG1/MEST [Homo	emb CAA72297.1	100%	20	1030
				sapiens]				
HDTCC55	1023046	585	blastx.2	(AL117483)	emb CAB55956.1	33%	306	533
				hypothetical protein	-	35%	4	105
				[Homo sapiens]		42%	105	182
H00JQ91	1023049	286	blastx.2	envelope protein	gb AAA88027.1	63%	.03	530
	•			[Homo sapiens]				
HCE4K28	1023227	287	blastx.2	(AF021792) Bcl-	gb AAB72092.1	%86	792	750
				X/Bcl-2 binding protein				
				[Homo sapiens]				
HPDVY62	1023264	889	blastx.2	DOCK180 protein	dbj BAA09454.1	%66	2	1126
				[Homo sapiens]				
HLHDK42	1023339	685	blastx.2	modifier 2 [Mus	emb CAA40012.1	61%	28	300
				musculus]		85%	3	62
HLDRQ55	1023375	290	blastx.2	coiled-coil like protein	gb AAB61902.1	%86	5	388

	647	637	313	492	623	1354		1077		207		371		818		1017	1300	1478	1665	1070	972	471	417	1315	510	1028	818	
	93	1359	14	319	498	173		1		157		21		36			1160	1332	1582	696	88	202	250	1169	331	969	141	
	%L6	<b>%96</b>	%86	<b>%96</b>	%26	100%		100%		%26		%26		100%		%96	92%	%6/	100%	%19	28%	33%	40%	38%	36%	35%	100%	
	gb AAC17108.1		dbj BAA91503.1	,		gb[AAD05561.1]		gb AAA61061.1		gb AAC41916.1		gb AAC41916.1		emb CAA39149.1		gb AAD01193.1		-						-			emb CAA53814.1	
1 [Mus musculus]	(AF064603) GA17	protein [Homo sapiens]	(AK001103) unnamed	protein product [Homo	sapiens	(AF104670) cell cycle	protein [Homo sapiens]	chaperonin-like protein	[Homo sapiens]	ribosomal protein L34	Homo sapiens	ribosomal protein L34	[Homo sapiens]	TREB protein [Homo	sapiens]	(AF006264)	recombination and	sister chromatid	cohesion protein	homolog [Homo	sapiens	1					vacuolar H+ ATPase E	subunit [Homo sapiens]
	blastx.2		blastx.2			blastx.2		blastx.2		blastx.2		blastx.2		blastx.2		blastx.2											blastx.2	
	591		592	·		593		594		595		969		597		865				,							599	
	1023414		1023422			1023531		1023545		1023584		1023585		1023632	·	1023837											1024000	
	HVVBI06		HOCME51	,	-	HPDOP74	-	HMSOH12		HOPJG50		HDUAB04		HVCAA38		HIBCN87	1144										HPCOM04	

1061		392	‡	1231	275	1027	1112	517		971			403						1225		e			512	992	$\bigg]$
804		w 4	2	200	198	62	1029	203		48			2						89		251			183	512	
%86	,	%16	0020	%26	27%	%86	%99	100%		100%			36%						%96		64%			%86	100%	
emb CAB53376.1		dbj BAA20128.1		gb AAB18374.1		gb AAB64189.1		emb CAB43374.1		emb CAB55628.1			emb CAA21052.1						dbj BAA36499.1		dbj BAA91131.1			gb AAF14859.1 AF1	10776_1	1
(AL109978)	hypothetical protein [Homo sapiens]	N-WASP [Homo	sapiens	39 kDa encoded by	N33 [Homo sapiens]	(AF006084) p41-Arc	[Homo sapiens]	(AL050273)	hypothetical protein	(AJ249366) epsilon-	COP protein [Homo	sapiens	(AL031640)	/prediction=(method:""	genscan"",	version:""1.0"", 1 1 1	target:SPTREMBL::06	087	(AB015597) hTIM1	[Homo sapiens]	(AK000385) unnamed	protein product [Homo	sapiens]	(AF110776) adrenal	gland protein AD-003	гото sapiens
blastx.2		blastx.2		blastx.2		blastx.2		blastx.2		blastx.2			blastx.2						blastx.2	•	blastx.2			blastx.2		
109		602		603		604		605		909			607						809		609			.610		
1024332		1024472		1024556		1024624		1024915		1025047	<u>.</u>		1025102						1025231		1025327		,	1025359		
HPAME01		HTTJS76		HCORI57		HNORG50		HWLVR07		HOPKF60			HBDAD74						HPCTY12		HFASF12			HLIBM71		

HNOKW2	1025366	611	blastx.2	F35C11.4	emb CAA90244.1	30%	162	632
7				[Caenorhabditis	-	31%	743	1060
HPFDG48	1025526	612	blastx.2	(AF083242) HSPC024-	gb AAD39840.1	%88	313	387
HVVBF24	1025712	613	blastx.2	TRAM protein [Homo	emb CAA45218.1	100%	175	1296
HE8UF88	1025745	614	blastx.2	retinoblastoma-binding protein mRbAp48 [Mus	gb[AAC52275.1]	96%	124	1473
HOUBC29	1025749	615	blastx.2	GTP-binding protein (rab2) [Canis familiaris]	gb AAA30888.1	100%	444	719
HOCPY47	1025965	919	blastx.2	(AF055010) unknown [Homo sapiens]	gb AAC09360.1	99%	1567 1337	2760 1594
HOVKE20	1025990	617	blastx.2	follistatin-related protein FLRG [Homo sapiens]	gb AAC64321.1	100%	36	824
HODBK27	1026372	619	blastx.2	(AF054284) spliceosomal protein SAP 155 [Homo	gb AAC97189.1	100%	123	497
нЕ8СН59	1026805	620	blastx.2	(AK001093) unnamed protein product [Homo sapiens]	dbj BAA91500.1	100% 100% 31% 36%	1913 1654 1994 2405	2632 1848 2689 2755
HSKGR52	1026911	621	blastx	putative glycosyl transferase [Schizosaccharomyces	emb CAB10854.1	55% 76% 42% 40%	488 389 272 92	616 439 376 202
				1 2 2 2 2 2				

524		378	999	1565		241	975	63	1117	277			393	_			462				1004				299			
54		557	601	9		35	865	7	275	74			22				91				123				2			•.
74%		21%	%99	%66		78%	94%	52%	100%	100%			100%				100%	•			73%				%66		•	
gb AAD34062.1 AF1	51825 1	gb AAF29584.1 AF1	13685_1	gb AAF29040.1 AF1	61553 1	emb CAA48726.1			gb AAC72409.1				emb CAB37641.1				emb CAB37641.1				gb AAD27851.1 AF1	32552_1			gb AAB37433.1			
(AF151825) CGI-67	protein [Homo sapiens]	(AF113685) PRO0974	[Homo sapiens]	(AF161553) HSPC068	[Homo sapiens]	S-adenosylmethionine	synthetase [Homo	sapiens	(AF102265) N-	acetylglucosamine-	phosphate mutase	[Homo sapiens]	(AL031663)	dJ461P17.6 (Major	Epididymis-specific	protein E4 1 1 sapiens]	(AL031663)	dJ461P17.6 (Major	Epididymis-specific	protein E4 1 1 sapiens]	(AF132552)	BcDNA.GM01838	Drosophila	melanogaster	BB1=malignant cell	expression-enhanced	gene/tumor 1 line,	repluce, 342 aaj [nomo sapiens]
blastx.2		blastx.2		blastx.2		blastx.2			blastx.2				blastx.2		•		blastx.2				blastx.2		•		blastx.2			, ·
622		623		624		625			979		,		627				628				630				631			
1026913		1026979		1027007		1027207			1027269				1027484				1027486				1029191				1029484			
HMUAQ0	5	HCOMA45	•	HE2K145		9900ДОН			HVVAT45				HVCAG18				HPTXK72				HDTLR06				HPAMG11			

1176	:	1516	1429	1420	1429	1899	1881	640	130	2158	96	462			2271		423	2696	2		1092	٠	
52		1097	1037	1040	1094	1747	1735	995	74	95	1	349			52		259	279	3		22		
100%		32%	32%	33%	32%	45%	34%	48%	36%	%66	%96	%98			%66		%59	100%	2/001		%66		
emb CAB70786.1		emb CAA46283.1							•	dbj BAA07552.1		dbj BAA85182.1			emb CAA49992.1		gb AAA31142.1	ahl A C 07084 11	Euler Coording		dbj BAA90894.1		
(AL137520)	hypothetical protein [Homo sapiens]	extensin [Volvox	carteri]	ı		•				ha1025 is new [Homo	sapiens]	(AB033168) nuclear protein ZAP [Mus	musculus]		member of DEAD box	protein tamily [Homo sapiens]	valosin-containing	A COUNTY)	(AC0044/2) TERA HUMAN	[Homo sapiens]	(AK000031) unnamed	protein product [Homo	sapiens
blastx.2		blastx.2								blastx.2		blastx.2			blastx.2		blastx.2	blocky 2	Oldsta.2		blastx.2		_
632		633								634		989			637		829	630	600		640		
1030870		1030871								1030963		1031085			1031316		1031328	1031330	1031327		1031435		
HSDJR27		HOCPL33								HPCQN80		HODFZ16			HWGAE28		HOFNZ21	SCHAUUH	HOUNTES		HDTIL75		

1751		631					1328			1204				672			785				400			431	·		801	869
6		512					09			365				379			105				- 260			48			700	633
%66		100%					%66			41%				100%			%86				97%			100%			91%	100%
gb AAF01278.1		gb AAD17301.1					gb AAD25870.1 AF0	20797_1		emb CAB06436.1				emb CAA68188.1			gb AAC50419.1			·	dbj BAA91040.1			emb CAB41269.1	-		gb AAB72234.1	
(AF168418) activating	signal cointegrator 1 [Homo sapiens]	(AF125182) single-	strand selective	monofunctional uracil	DNA glycosylase	[Homo sapiens]	(AF020797) AP-mu	chain family member	mu1B [Homo sapiens]	hypothetical protein	Rv0712	[Mycobacterium]	tuberculosis]	S100 calcium-binding	protein A13 (S100A13)	[Homo sapiens]	putative T1/ST2	receptor binding	protein precursor	[Homo sapiens]	(AK000264) unnamed	protein product [Homo	sapiens	(AL049705)	hypothetical protein	[Homo sapiens]	novel ORF [Homo	sapiens]
blastx.2		blastx.2					blastx.2			blastx.2				blastx.2			blastx.2				blastx.2			blastx.2			blastx.2	
641		642					643			644				645			646				647			648			649	
1031451		1031606					1031922			1031988				1032475			1033653				1034320			1034471			1034539	
HPRSB55		HPDPY36					HETFJ47			HMAMI21				HC000085			HE2DQ62				HEBAE89			HKDBF43			HVVCT43	

841	986	115	974	1299	435.	786	357
806	693	468	93	439		286	73
91%	48%	38%	%66	100%	%66	30%	32%
	gb AAF19993.1 AF2 14634_1	gb AAA88036.1	emb CAB60141.1	gb AAB69324.1	dbj BAA91872.1	gb AAD30426.1 AF1 17723_1	emb CAB01127.1
	(AF214634) polyA binding protein [Homo sapiens]	unknown protein [Homo sapiens]	(AJ246001) spastin protein [Homo sapiens]	(AF013249) leukocyte- associated Ig-like receptor-1 [Homo 1	(AK001738) unnamed protein product [Homo sapiens]	(AF117723) seed maturation protein PM27 [Glycine max]	predicted using Genefinder; Similarity to Drosophila RNA 1 this gene [Caenorhabditis elegans]
	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2
	650	651	652	653	655	959	657
	1035435	1035602	1035988	1036583	1036973	1037108	1037131
	HTTDR30	HODGO46	HNTTB23	HVVBV73	HTEPV42	HFTCG52	HKAOB40

885	811	875	152	171	434	1	520	1559		356	735	578			525		2172	2001	2151	1017	2187	2118	2193	2351	1242
118	50	681	15	43	120		44	114		234	011	114			415		-	7	` °C	07	16	-1	184	2127	31
100%	74%	%95	63%	41%	100%		%66	100%		100%	100%	100%			94%		%66	20%	2010	0/17	22%	19%	22%	%09	100%
emb CAA60671.1	pir A38218 A38218				gb AAB49682.1		emb CAA68877.1	gb AAA60043.1		gb AAA35934.1		gb AAA35934.1			emb CAB45747.1	-	041A A A 60580 11	2000001110200111020	,						gb AAD24202.1 U83 194_1
cathepsin C [Homo	GAP-associated protein	p190 - rat		•	ubiquitin-like protein	Bos taurus	nucleoside-diphosphate kinase [Homo sapiens]	endothelial cell growth	factor [Homo sapiens]	glutathione S-	transferase [Homo	glutathione S-	transferase [Homo	sapiens]	(AL080156)	hypothetical protein	hoto appoin Homo	ocia-specimi [110mo	sapiens						TRAF4-associated factor 2 [Homo
blastx.2	blastx.2				blastx.2		blastx.2	blastx.2		blastx.2		blastx.2	*		blastx.2		Lloch: 2	Uldsta.2							blastx.2
859	629				099		661 -	662		663		664			999		777	99							899
1037303	1037438				1037480		1038344	1038378		1038717		1038718		-	1038915		1000017	103501							1039290
HPDVE37	HTT.ES74				HCORG51		HPAMIM7	HKZAT03		HDQMA8	5.	HVCC082	,		HTGFP54		1100001	HBQDF41							HPAMC60

				sapiens				
HLMHM8 3	1039491	699	blastx.2	(AK001123) unnamed protein product [Homo sapiens]	dbj BAA91513.1	44%	158	616
HOUDK70	1039538	029	blastx.2	(AF091083) unknown [Homo sapiens]	gb AAC72952.1	100%	285	1142
HMEFK29	1039652	672	blastx.2	(AC002398) F25965_1 [Homo sapiens]	gb AAB81199.1	54% 100%	808	993
HAOSK79	1039663	673	blastx.2	(AJ223953) hPTTG [Homo sapiens]	emb CAA11683.1	100%	54	629
HPDRV42	1039689	674	blastx.2	P58 [Homo sapiens]	gb[AAC50331.1]	,100%	135	1649
HOPJD35	1039703	675	blastx.2	(AF035262) BAF57 [Homo sapiens]	gb AAC04509.1	100%	121	1353
HTFNP84	1039748	929	blastx.2	ect2 [Mus musculus]	gb AAA37536.1	94%	73	1227 125
HTHDT76	1039871	<i>LL</i> 9	blastx.2	(AL117404) hypothetical protein [Homo sapiens]	emb CAB55905.1	%86	L	564
HSYEC21	1039891	829	blastx.2	adenosine trinhosnhatase [Homo	gb AAA35999.1	%96 %66	432 1	2372
	-			sapiens]		37%	3819	3890
HKGC025	1040384	629	blastx.2	NAP [Homo sapiens]	gb[AAC37544.1]	%66	3	999
HNOJN70	1040385	089	blastx.2	(AF062594) nucleosome assembly protein [Rattus	gb AAC67388.1	100%	297	425
HADFS31	1040388	681	blastx.2	(AF214680) C3HC4- like zinc finger protein [Homo sapiens]	gb AAF30180.1	88% 92%	449 145	832 504

1040569 682 bis		19	blastx.2	nonhepatic arginase	dbj BAA13158.1	100%	113	661
Hot	IOH]	Hoi	Hoi	Homo sapiens]		%26	651	1175
1040591 683 blastx.2 (AK)	blastx.2		(AK(	(AK000897) unnamed	dbj BAA91413.1	47%	303	557
protein j	prote	prote	protei sapiei	protein product [Homo sapiens]				•
1040620 684 blastx.2 thioeste	blastx.2	<u></u>	thioe	thioesterase II [Homo	emb CAA60024.1	%89	84	527
1040631 685 blastx.2 zinc	blastx.2		zinc	zinc-finger helicase	gb AAC39923.1	91%	277	289
1040694 686 blastx.2 tume	blastx.2	,	t tang	tumor susceptibility protein [Homo sapiens]	gb AAC52083.1	100%	110	922
1040826 687 blastx.2 (AK)	blastx.2	$\vdash$	(AK	(AK001550) unnamed	dbj BAA91751.1	. 63%	-	654
prote	prote	prote	prote	protein product [Homo	-	75%	108	398
sapiens	sapie	sapie	sapie	sus]		31%	505	618
1040913 688 blastx.2 prote	blastx.2		prote	protein of unknown	gb AAA63232.1	%96	355	999
sapiens	sapie	sapie	sapie	ns]				,
1040925 689 blastx.2 (AF0	blastx.2		(AF0	(AF005855) anon2A5	gb AAB81486.1	79%	20	415
Dro	[Dro mela	Dro	Dro mela	[Drosophila melanogaster]		,		
1040932 690 blastx.2 prote	blastx.2		prote [syn	protein antigen [synthetic construct]	emb CAA01182.1	100%	539	1384
1041049 691 blastx.2 bcn9 subo	blastx.2		ben9 subo	bcn92 [Drosophila subobscura]	emb CAB55311.1	25%	226	474
1041070 692 blastx.2 (AF	blastx.2		(AF	(AF161479) HSPC130 Homo sapiens	gb AAF29094.1 AF1 61479 1	94%	3	356
1041900 693 blastx.2 NF-	blastx.2		Ϋ́	NF-AT3 gene product	gb AAA79175.1	100%	111	428
[Ho	юн]	ю <u>Н</u>	Ю <u>Н</u> ]	Homo sapiens]		39%	42.1	612

586	3432	338	2256	637	494	852	870	51	138	225	629	629	629	629
455	259	174	2717	188	180	52	301	632 584	632	620	742	790	790	790
40%	100%	65%	%56	40%	 100%	100%	100%	31% 34%	33%	34%	23%	36%	36%	39%
	gb AAA61246.1	gb AAD15797.1	dbj BAA03074.1	gb AAA76738.1	emb CAA54687.1	emb CAA30678.1	dbj BAA19122.1	pir A24264 A24264						
	ubiquitin-activating enzyme E1 [Homo sapiens]	(AF055470) ZNF258 [Homo sapiens]	Mel-18 protein [Homo sapiens]	unknown [Homo sapiens]	ATL-derived factor/thioredoxin Homo sapiens	pre-pump-1 proteinase (AA -17 to 250) [Homo sapiens]	(AB000468) zinc finger protein [Homo sapiens]	proline-rich protein MP2 - mouse	(fragment)					
	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2						
	694	695	969	869	669	701	702	703						
	1042462	1042649	1042859	1042951	1043273	1043532	1043553	1044199				-		
	HSPSI42	.НРДОД23	HWMBA1	HETKL27	нРСТН04	HVVBM94	HVVBC43	HTPDM31						

662	662	439	93		834			968			1738	493		1657	1319		1269	932	260	614	593		855		1067	1174	258		
790	790	53			424			n			749	20		1316	1101		940	465	9	315	450		160		309	1067	34		
41%	38%	%68	48%		72%			77%			45%	47%		%89	73%		<i>%LL</i>	41%	25%	21%	31%		100%		100%	97%	%96	• .	
	-	dbj BAA05923.1			gb[AAD17989.1]			gb AAB17729.1			gb AAC14192.1			gb AAF31432.1			gb AAB00699.1	•					gb AAC13881.1		gb AAD34056.1 AF1	51819_1	emb CAB53709.1		
		similar to Human Sp2	protein (M97190)	rionio sapiensi	(AF106473) leucine-	rich-domain inter-	acting protein 1; LeR 1	CTP synthetase	homolog [Mus	musculus]	D-E-A-D box protein	Drosophila	melanogaster]	(AF213393) ATP-	binding cassette protein	[Mus musculus]	coded for by C. elegans	cDNA yk34b1.5; coded	for by C. elegans 1 1	coded for by C. elegans	cDNA yk46e8.3; coded	fo	adenylate kinase 2B	[Homo sapiens]	(AF151819) CGI-61	protein [Homo sapiens]	(AL110271)	hypothetical protein	[Homo sapiens]
		blastx.2			blastx.2			blastx			blastx.2			blastx.2			blastx.2						blastx.2		blastx.2		blastx.2		
		704			705			90/			707			208			709						710		711		712	<b>-</b> .	
		1044577			1044618			1044635			1044711			1044741			1044760	•					1044762		1044769		1044821		
		HSQEK12			HPDRZ16			HVCBC44			HPIAC22			HSODA53			HE9ML74						HPDRB76		HSYDISS		HOGCI31		

				sapiens				
HOPKT59	1047169	725	blastx.2	p23 [Homo sapiens]	gb AAA18537.1	100%	335	814
HMCFK45	1047212	726	blastx.2	(AF182844) VPS28	gb AAF00499.1 AF1	100%	124	786
-	·			protein Homo sapiens	82844 1			
HPIAN63	1047381	727	blastx.2	(AF011792) cell cycle	gb AAB69312.1	100%	706	286
				progression 2 protein		94%	286	786
				Homo sapiens	٠	<b>78%</b>	170	892
				1	-	76%	107	505
						38%	762	935
						30%	589	687
HNSME49	1047403	728	blastx.2	predicted using	emb CAB04731.1	%55	114	554
				Caenorhabditis				
				elegans]				
HWEAC64	1047473	729	blastx.2	ORF X (AA 1 - 393)	emb CAA31134.1	%86	167	700
				[Escherichia coli]				
HOCQI51	1047483	730	blastx.2	(AB034912) WD-	dbj BAA92312.1	%66	66	1004
				repeat like sequence		%96	296	1479
				[Homo sapiens]		46%	939	977
						46%	1081	1119
HOPKE15	1047634	731	blastx.2	putative RNA-binding	emb CAB11047.1	<b>36%</b>	509	1432
				protein		30%	141	401
				[Schizosaccharomyces				
				pombe]				
HMAEL73	1047646	732	blastx.2	(AL157427)	emb CAB75652.1	100%	754	2463
				hypothetical protein				
				[Homo sapiens]				
HNOKE42	1047663	733	blastx.2	(AF116272) T-cell	gb AAD38498.1 AF1	100%	65	445
				activation protein	16272_1			
				[Homo sapiens]			•	

2 181	30 221	69 305		166 399		233 958		503 907		169 729					92 1033	446 1279		17 1231		_	191 934			
																								_
93%	92%	100%		87%		%66	91%	32%		94%				100%	49/	30%		46%			100%			
pir A00119 CCBO11		dbj BAA83718.1		gb AAC64583.1		dbj BAA13448.1	-			sp G545790 G545790				gb[AAA98961.1]		emb CAB11599.1		dbj BAA91513.1		1000000	gb[AAB81515.1]		•	
ubiquinolcytochrome-	c reductase (EC 1.10.2.2) 11K protein -	(AB016092) RNA binding protein [Homo	sapiens]	(AF091242) ATP	sulfurylase/APS kinase 2 [Homo sapiens]	Similar to Human	C219-reactive peptide	(L34688) [Homo	sapiens	DARPP-	32=DOPAMINE AND	CAMP-REGULATED	PHOSPHOPROTEIN.	transketolase [Homo	sapiens]	hypothetical protein	[Schizosaccharomyces	(AK001123) unnamed	protein product [Homo	sapiens	(AF022815)	proteasome subunit	XAPC7 [Homo	sapiens
blastx.2		blastx.2		blastx.2		blastx.2				blastx.2				blastx.2		blastx.2		blastx.2	···	,	blastx.2			
734		736		737		738				739				740		741		742			743			
1047670		1047820		1047848		1047937				1048009				1048188		1048300	٠	1048427		1	1048595			
HOFAE31		HNOAC93		HMEJA45		HLDAS11				HWMJB31				HAZAA31		HOCMC83		HCFCS40			HVCAA65			

1578		1233			710		2377	1180	1944	310	805			1861	530	1429			611	
208		436			33		3258	1452	2039	327	173			1154	408	11			516	
%66		%66			%56		39%	28%	45%	100%	100%			%/4	46%	100%			100%	
gb AAB71339.1		gb AAF05313.1 AF1 77385 1			gb AAA21254.1		pb AAA88038.1				gb AAD16433.1			emb CAB45750.1	,	emb CAA69941.1			emb CAA94801.1	
prolyl 4-hydroxylase	alpha (II) subunit [Homo sapiens]	(AF177385) cvtochrome c oxidase	assembly protein	isoform 2 [Homo sapiens]	signal peptidase	complex 25 kUa subunit [Canis	unknown protein	[Homo sapiens]			(AF101051)	senescence-associated	epithelial membrane protein [Homo sapiens]	(AL080159)	hypothetical protein [Homo sapiens]	serine	palmitoyltransferase,	subunit I [Homo	Similarity to yeast	hypothetical protein PIR accession number
blastx.2		blastx.2			blastx.2		hlastx 2				blastx.2			blastx.2		blastx.2			blastx.2	·
744		745			746		747	=			748			749		750			751	<u> </u>
1048635		1048658			1048739		1048707	2010101			1049151			1049372	· .	1049466			1049644	÷
HSPSI76		HVVCH35			HOFNI66		HMCKTOO	A THATCH A			HSYBI49			HTXSN37		HMUBT31			HFPDO90	

	1139 1504	0.29	1186	2415	1273	2738	995	810	421	833	3136	1784	2983	1300	416
	213 1067	11	212	643	161	1818	405	121	203	465	3017	1464	2939	371	3
	%96 %96	100%	100%	%66	100%	%66	%26	23%	31%	32%	40%	78%	46%	%86	%96
	emb CAA00829.1	emb CAB42866.1	gb AAA36043.1	sp Q16236 NFL2_HU MAN	gb AAB58075.1	dbj BAA08565.1				-			-	gb AAC39776.1	
1 I this gene; cDNA EST yk504c7.3 comes from this gene; cDN	urokinase [synthetic construct]	(AL031733) dJ455J7.1 (cellular repressor of E1A-stimulated genes CREG) [Homo sapiens]	interferon regulatory factor 1 [Homo sapiens]	NUCLEAR FACTOR ERYTHROID 2 RELATED FACTOR 2 (NF-E2 1 ERYTHROID DERIVED 2, LIKE 2) (HEBP1).	ESX [Homo sapiens]	DNA binding protein	[Homo sapiens]							(AF016903) agrin	precursor [Homo
·	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2								blastx.2	
	752	753	754	755	756	757							′	758	
	1050102	1050167	1050256	1050282	1050419	1050536	·						-	1050553	
	HVVCB79	HDPGR19	HVVDX63	HNOJA87	HTPGI65	HHFGN14			,					HTAIN76	

<del>-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>
,
759 blastx.2
760 blastx.2
761 blastx.2
762 blastx.2
763 blastx.2
764 blastx.2
765 blastx.2

580	300	152	159	098	527	539	9/9	360	661	298	658	1377	82	3250	705	2952	699	2094	899	896	583
452	187	84	413	988	18	246	362	175	365	353	365	94	5	3194	640	2905	607	184	93	18	20
36%	34%	43%	64%	77%	100%	37%	100%	%98	51%	51%	38%	100%	%59	47%	40%	%95	45%	100%	100%	%96	100%
		-	dbj BAA91205.1		dbj BAA90946.1		gb AAB60490.1					emb CAB63856.1	emblCAA92991.11					emb CAA24748.1	gb AAD34108.1 AF1	gb AAA59925.1	emb CAB43305.1
			(AK000496) unnamed	protein product [Homo sapiens]	(AK000101) unnamed	protein product [Homo sapiens]	cellular nucleic acid	binding protein [Mus	musculus	1		(AJ251914) putative RNA helicase [Sus	Hintington Disease	(HD) gene exon 1	[Homo sapiens]		•	mannitol permease [Escherichia coli]	(AF151871) CGI-113	neurofibromin [Homo	(AL050169) hypothetical protein
			blastx.2		blastx.2		blastx.2					blastx.2	blastx.2					blastx.2	blastx.2	blastx.2	blastx.2
			99/		191		768					69/	770					771	772	773	774
			1051319		1051410		1051437					1051533	1051883					1051903	1051953	1051983	1052158
			HWLXZ72		HUSG045	,	HLDRA54				•,	HNOJR48	HKTXH35					HHEBJ92	HPTGB84	HVCCD05	HPYSC40

	844	652	852	745	1033	1915	431	,	622	<i>1</i> 69	1289
	158	59	226	20	632 243	1826	282		2	512	609
	100%	100%	100%	%06	52% 49%	40%	64%		%18	100%	100%
	gb AAF14858.1 AF1 10775_1	gb AAA60588.1	dbj BAA22984.1	gb AAC50895.1	gb AAC36017.1		gb AAA92286.1		gb AAC39930.1	emb CAA34385.1	dbj BAA91907.1
[Homo sapiens]	(AF110775) adrenal gland protein AD-002 [Homo sapiens]	sorcin CP-22 [Homo sapiens]	(AB000712) CPE- receptor [Homo sapiens]	CUG-BP/hNab50 [Homo sapiens]	(AC002397) C9 [Mus musculus]		nuclear protein essential for dosage	Compensation [Caenorhabditis elegans]	(AF064801) multiple membrane spanning receptor TRC8 [Homo sapiens]	54k protein (AA 1-504) [Canis familiaris]	(AK001782) unnamed protein product [Homo sapiens]
	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2		blastx.2		blastx.2	blastx.2	blastx.2
	775	922	777	778	780		781		782	783	784
	1052261	1052553	1052557	1052593	1052874		1053037		1053164	1053171	1053173
	HDDMT56	HVVAW0	HOGCS42	HAZAA59	HMALJ21		HLYAR61		HLTCQ80	HDTDU67	HMABL01

2631 1813 889	653 518 521	610	532	220 587 431	869	808
1804 1301 815	39 42 42	95	374	77 486 387	150	164
99% 100% 60%	66% 28% 27%	100%	%06	100% 48% 53%	100%	100%
dbj BAA24179.2	gb AAB59189.1	dbj BAA11212.1	dbj BAA20422.1	emb CAA72272.1	gb AAA79920.1	gb AAA91892.1
(AB002405) LAK-4p [Homo sapiens]	pumilio protein [Drosophila melanogaster]	CIRP [Homo sapiens]	heparan sulfate 2- sulfotransferase [Cricetulus longicaudatus]	phosphoenolpyruvate carboxykinase (GTP) [Homo sapiens]	microfibril-associated glycoprotein [Homo sapiens]	casein kinase-II beta [Oryctolagus cuniculus]
blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2
785	786	787	788	789	790.	791
1053236	1053369	1053547	1053548	1053585	1053725	1053746
HACMU05 1053236	HOVDF79	HVVBJ54	HOFMUSO	HE9M038	HOPJF55	НАОТD13

2334	1614	1063	2332	1403	2380	119	89	101	1173	111	·	873		110	204	169	919	46		722		
2			. 2		~	<del></del>							•									
1	178	2	50	639	1871	883	36	754	952	25		226		15	160	128	152	7		m		
%86	%66	%66	%68	46%	31%	36%	%06	31%	37%	93%		100%		%06	62%	35%	%66	%99		87%		
emb CAA57478.1	gb AAC23797.1	gb AAA16256.1	gb[AAC17708.1]							dbj BAA77671.1		gb AAA36601.1		dbj BAA13194.1			gb AAB62723.2	. •		gb AAD19818.1	i	
p0071 protein [Homo sapiens]	(AF058448) herpesvirus entry protein B [Homo sapiens]	drebrin E2 [Homo sapiens]	p160 [Homo sapiens]							cytochrome c oxidase	subunit 3 [Homo	secreted cyclophilin-	like protein [Homo	similar to mouse CC1.	[Homo sapiens]	1	(AF005038) secretory	carrier membrane	protein [Homo sapiens]	(AC007059) Human	homolog of Mus	musculus wizL protein
blastx.2	blastx.2	blastx.2	blastx.2			٠				blastx.2		blastx.2		blastx.2			blastx.2			blastx.2		
793	794	795	962	<del></del>						862		799		800			801			802		
1053973	1054015	1054085	1054122					,		1054196		1054230		1054235			1054288			1054400		
HOCPT34	HFKHC64	HOPKO37	HNBV053							нсоро11		HTFML39		HOGCR32			HFCDL60			HODEC13		

	553	484	39	689	59	1588	734	1638	1914	2246	720			797	76	1388		485		401		584			799	
	35	161	_	591	3	545	162	1276	1666	2190	37			63	35	36		258		18		126			317	-
	%68	78%	%92	39%	47%	%56	74%	30%	78%	38%	%05			%66	78%	%66		100%		%96		100%			%56	
	gb AAA75623.1					sp P50570 DYN2_H	UMAN				emb CAB36858.1			gb AAF27330.1		emb CAB75542.1		gb AAD39916.1 AF1	25099 1	gb AAA24052.1		gb AAC51322.1			gb AAC51322.1	
[AA 4-1561] [Homo sapiens]	DNA/RNA-binding	protein [Homo sapiens]				DYNAMIN 2.					(AL031115) ZXDA,	LXDB (zinc tinger X-linked protein) [Homo	sapiens]	(AF178534) talin	[Homo sapiens]	(AJ245621) CTL2	protein [Homo sapiens]	(AF125099) HSPC038	protein [Homo sapiens]	lac repressor protein	(gtg start codon)	sin3 associated	polypeptide p18 [Homo	sapiens]	sin3 associated	polypeptide p18 Homo
	blastx.2					blastx.2					blastx.2			blastx.2		blastx.2		blastx.2		blastx.2		blastx.2			blastx.2	
	803					804					805			908		807		808		608		810			811	
	1054451					1054527					1054550			1054662		1054677		1054751		1054790		1054812			1054813	
	HUSYA18					HOCON42					HKMNH3	7		HPDWP21		HOGCS52		HWMCK6	0	HWLOU33		HKZBM58			HTEOV06	

	585	1989	1620	948	1985	1348	1682	979	1276	895	1333	1324	1273	895	856	1003	1147	626	484	1445	1676	1676	829	1769
	7	1084	841	100	1908	2	1290	251	62	197	I	4	62	146	3	605	278	35	221	1308	1290	1437	969	1287
	%26	73%	45%	30%	22%	%86	%06	31%	27%	30%	24%	27%	79%	30%	79%	32%	24%	20%	34%	25%	26%	28%	28%	25%
	dbj BAA02807.1	gb AAC00205.1	- •			dbj BAA22956.1																		
sapiens	protein related N- ternimus of tre oncogene [Homo sapiens]	PRAJA1 [Mus	musculus]	7		(AB006625) The	human homolog of a	mouse imprinted gene,	Peg3. [Homo sapiens]									•						
, ,	blastx.2	blastx.2				blastx.2																		
	813	814				815																		
	1055174	1055248		٠		1055304														-				
	нтенр29	HNOJJ32		,		HFPHF52																		

1676	1499	1676	626	1499	1679	1676	1502	625	859	1048	1438	. 581	1191	1006		1310	1504	1518		625		689
1308	1305	1398	905	1425	1596	1608	1344	314	752	86	2	111	571	839		522	1433	154		65		201
79%	32%	27%	36%	36%	39%	34%	28%	100%	43%	100%	100%	%/6	28%	25%		42%	32%	%66		%66		%86
					•			dbj BAA91239.1		emb CAA55343.1	emb CAA40918.1	gb[AAC51293.1]			·	ob AAC37427 11		emb CAB61393.1		emb CAB65119.1		gb AAD45242.1 AF1
								(AK000538) unnamed	protein product [Homo sapiens]	EF-hand protein [Homo sapiens]	stromelysin-3 precursor [Homo sapiens]	Hlark [Homo sapiens]				mvosin IC	[Dictyostelium discoideum]	(AL133070)	hypothetical protein	(AJ250865) TESS 2	[Homo sapiens]	(AF118394) putative
								blastx.2		blastx.2	blastx.2	blastx.2				hlastx 2	·	blastx.2		blastx.2		blastx.2
	•							816		817	818	820				821		822		823		824
								1055381		1055426	1055439	1055467				1055480	)	1055582		1055632		1055767
								HBNMF62		НТРНО72	HOPKL18	HTXKD84				HTXRR82		HAIBU62		HDTAY29		нсоор79

210	559 562			,	1957.				853						٠	168		344		1084			932	•		
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100%	28% 36%				%66	•			45%		;		-			%86		100%		100%			%86	-		
18394_1	emb CAA94773.1				gb AAD49722.1 AF1	67160_1			emb CAA99881.1	-					•	emb CAA66186.1		gb AAC51319.1		gb AAB51324.1			gb AAD53962.1 AF1	81467_1		
nucleotide binding protein [Homo sapiens]	Similarity to EGF domain; cDNA EST	EMBL:T02406 comes	from this gene	[Caenorhabditis elegans]	(AF167160) protein	inhibitor of activated	STAT-1 [Homo	sapiens]	similar to ankyrin	motifs; cDNA EST	CEMSH89F comes	from this 1 1 cDNA	EST EMBL:D33056	comes from this gene;	cDNA EST E	fsh-like protein [Mus	musculus	Wnt7a protein [Homo	sapiens	B-cell receptor	associated protein	[Homo sapiens]	(AF181467) protein Z-	dependent protease	inhibitor precursor	Homo sapiens
	blastx.2				blastx.2				blastx.2		•					blastx.2		blastx.2		blastx.2			blastx.2			
	825				826				827							828		829		830			831	-		
	1055899			,	1056000			<u>.</u>	1056097						·	1056102		1056104		1056275			1056290			
	HAMHN1				LODIY67				HNTRS57							HUKFL74		HTEBF05		HOPKD19			HLICR58			

111	1436	327		3060	2118	2133	2166	2166	2118	2118	1632	2118	2109	2117	940	934	931	4139	1251	4190	3694	771	841	1587	3154	771	4119
7	396	265		1036	1036	1033	1036	1264	1429	1486	1036	1594	1327	1032	743	743	899	3777	1015	3672	3572	658	728	1432	2846	595	4021
100%	100%	33%		%56	45%	43%	45%	46%	44%	45%	44%	38%	36%	79%	38%	35%	34%	37%	31%	25%	36%	44%	44%	73%	73%	32%	40%
sp Q9Y6Y5 Q9Y6Y5	gb AAC98506.1			gb AAC39658.1			-					-			-												
IDN4-GGTR14 PROTEIN.	(AF095448) putative G	protein-coupled	receptor [Homo sapiens]	(AF018081) type XVIII	collagen Homo	sapiens	1							•••													
blastx.2	blastx.2			blastx.2																•	-						
833	834			835		,																					
1056400	1056407			1056454				•			,			•					,								
HAJAH48	HSKJC61			HEEBK29																							:

784	901	910	2905	3607	3161	3161	3971	3161	3731	3164	1140	1104	1056	1140	1053	1140	1140	1056	1164	1050	1230	1368	1566	1566	1692	1800	1632	1859	1608
<i>LL</i> 9	749	707	2753	3524	3120	3087	3789	3108	3579	3087	2129	2108	2129	2039	2129	2015	2105	2129	2108	1910	2111	2108	2111	2111	2039	2105	2108	2707	2108
38%	37%	27%	35%	32%	20%	40%	27%	20%	33%	40%	40%	37%	35%	38%	37%	37%	39%	35%	32%	35%	38%	37%	38%	37%	43%	43%	38%	30%	37%
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1863	2204	1046	2207	4695	2791	3534	2077	3555	3983	1987	2083	3489	1934	3788	2797	3677	3677	3083	2839	4643	2050	1055	9/9	2706	80	2785	2050	4090	4090
2117	2680	1468	2707	4790	2997	3599.	2394	3629	4135	2394	2457	3692	2020	3997	3015	3877	3862	3163	2988	4843	2394	1183	894	2825	178	2892	2157	4128	4131
43%	30%	32%	32%	45%	78%	52%	32%	48%	37%	27%	767	75%	51%	32%	33%	36%	32%	48%	28%	29%	33%	32%	30%	25%	33%	38%	36%	61%	20%
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2751	1182	1011	715	1125	2765	0040	2026	2095	2191	2221	1858	1774	1606	2322	2277	838	1405	523	1366
2801	10	. 271	95	34	162	000	752	830	914	866	290	548	482	2203	2239	2	26	56	1031
47%	%66	%86	29%	%66	%66	30%	%66	%89	. 65%	%59	62%	%19	%95	40%	61%	100%	%66	42%	41%
	emb CAA58449.1	emb CAB55680.1	gb AAC69883.1	pir A60345 A60345	gb AAF08220.1 AF1	51/93_1	pir A32891 A32891					٠				dbj BAA22621.1	gb AAA58460.1		
	Lutheran blood group glycoprotein [Homo sapiens]	(AL035608) dJ479J7.1 (similar to CHONDROMODULI N-1) [Homo sapiens]	(AF094760) RFXANK [Homo sapiens]	protein-tyrosine- phosphatase (EC 3.1.3.48) 11A - human	(AF151793) ALG-2	interacting protein 1 [Homo sapiens]	finger protein 1,	placental - human		-		•				GATA-6 [Homo sapiens]	protein disulfide	isomerase-related	protein [Homo sapiens]
	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	,	blastx.2									blastx.2	blastx.2	ı	
	836	837	838 ·	839	840		841									842	843		
	1056617	1056625	1056654	1056666	1056671		1056672									1056736	1056764		
	HCHMM1 9	HE8NG02	HWHKD2 2	HOCPJ87	HAAAA59	·	HOSBJ18									HUSGX12	HPDRG02	•	

1327	1660	1316	650	328	831	205	1833 1875 1779 1809 1782 1812 1812
1055	239	111	87	702 185	4	300 295	727 556 727 703 703 706 892 706
40%	100%	%86	100%	97% 32%	%86	75% 62%	30% 26% 26% 23% 24% 24% 26%
	dbj BAA78677.1	gb AAD32671.1 AF1 40242_1	gb AAA91463.1	gb AAB61297.1	emb CAA31282.1	dbj BAA85438.1	emb CAA62188.1
	(AB022663) HFB30 [Homo sapiens]	(AF140242) encephalopsin [Homo sapiens]	VEGF related factor isoform VRF167 precursor [Homo sapiens]	(AF003944) ovalbumin upstream promoter beta nuclear receptor rCOUPb [Rattus norvegicus]	ear-2 gene product [Homo sapiens]	(AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	Protein sequence and annotation available soon via Swiss-Prot; 1 [Homo sapiens]
	blastx.2	blastx.2	blastx.2	blastx.2	blastx:2	blastx.2	blastx.2
	844	845	846	847	848	846	850
	1056767	1056774	1056786	1056801	1056804	1056810	1056839
	HKZBB48	HHAWB1 9	HHATP38	HVVBE07	HKAHB85	HUSXA15	HNOCH54

1782	1833	1827	1827	1824	1236	1833	1836	1827	1833	1836	852	876	1782	408	069	876	1830	456	852	885	1359	1527	843	906	408	411	1296	411	1251
727	724	733	883	856	78	883	865	856	886	730	4	_	715	7	145	31	926	П	31	16	382	745	22	-	7	-	424	10	724
24%	21%	24%	25%	79%	22%	23%	21%	22%	23%	22%	24%	25%	22%	32%	31%	24%	23%	28%	25%	22%	23%	23%	70%	79%	78%	79%	24%	30%	23%
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069	411	1293	681	1635	501	1251	1311	369	612	1383	8/9	1782	501	684	681	1743	681	1356	675	681	069	675	069	693	1830	684	675	1383	1929
259	22	430	427	1054	250	427	430	_	7	427	352	730	250	424	427	1108	415	430	313	427	322	322	430	343	1648	430	412	430	1369
25%	31%	25%	34%	21%	35%	24%	24%	30%	25%	23%	78%	23%	31%	34%	35%	24%	32%	79%	79%	73%	27%	27%	30%	30%	36%	33%	31%	22%	22%
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684	282	675	420	1401	681	675	411	1635	843	753	1896	1521	1401	276	675	408	1785	684	681	765	1803	681	681	1308	829	069	501	1743	1359
406	_	343	31	430	430	337	184	1012	406	337	1627	1120	997	430	421	10	1357	430	358	376	1618	427	352	427	424	349	259	1108	364
31%	73%	27%	73%	22%	32%	27%	27%	23%	78%	79%	27%	23%	24%	34%	30%	27%	24%	31%	767	24%	25%	73%	28%	25%	32%	25%	. 29%	22%	21%
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1554	298	720	1383	693	1308	1311	1236	1383	1458	276	069	1818	1698	8/9	681	654	1827	1827	1401	1869	573	771	1077	1953	1635	1527	681	681	669
1273	424	412	961	427	430	409	634	430	1123	427	430	1648	1267	427	421	418	1651	1648	1072	1288	388	424	499	1621	1375	1279	427	430	430
25%	30%	78%	25%	30%	22%	22%	72%	21%	21%	31%	31%	31%	25%	27%	28%	79%	28%	30%	22%	24%	767	27%	25%	79%	22%	30%	30%	32%	25%
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1812	1830	1830.	1782	684	1827	1644	1254	1527	654	1533	1827	829	432	1488	1812	1509	420	1827	1527	1347	1644	681	1782	675	1311	829	654	684	693
1660	1648	1648	1333	415	1648	1273	1006	1009	418	1282	1582	430	148	1117	1648	1123	16	1618	1123	1012	1390	382	1369	352	427	427	430	427	430
32%	25%	34%	24%	23%	79%	79%	767	21%	73%	22%	23%	32%	28%	18%	27%	21%	31%	762	25%	27%	70%	25%	27%	22%	23%	25%	32%	25%	29%
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684	1929	1929	1383	1827	1830	1587	1827	1830	1452	621	1812	1635	1806	1242	1929	1827	292	1782	1239	1383	1554	1800	1518	1509	1023	300	1560	1554	1818
424	1648	1648	1018	1651	1648	1384	1648	1648	1012	430	1669	1393	1648	1123	1369	1648	427	1648	1057	961	1357	1648	926	1222	724	4	1390	1123	1648
27%	23%	78%	28%	25%	22%	79%	76%	24%	21%	32%	27%	23%	30%	32%	23%	25%	34%	40%	78%	24%	79%	25%	22%	78%	79%	22%	78%	18%	22%
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1245	1584	1905	1383	1806	675	411	1509	435	1917	1812	1567	1530	1929	1782	1782	1401	454	1839	1509	1734	1626	1635	1788	631	798	165	429	1800	1830
907	1288	1075	1120	1207	409	28	1285	16	1648	1648	1463	1072	1369	1648	1642	1012	338	1651	1174	1357	1369	1375	754	440	427	-	124	1651	1648
70%	25%	70%	22%	21%	79%	25%	22%	79%	25%	23%	37%	18%	21%	24%	25%	22%	27%	75%	23%	792	23%	21%	16%	792	24%	25%	25%	23%	22%
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8107	_	1195	626	29	1123	1648	897	1318	1468	1648	477	1980	1120	993	1651	1648	1375	1910	1733	1648	397	1369	1878	1336	1327	1120	1648	2031	1256
45%	25%	34%	22%	34%	30%	70%	78%	25%	22%	70%	47%	23%	23%	33%	22%	22%	24%	24%	25%	53%	762	20%	27%	31%	25%	23%	21%	43%	40%
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849	1928	393	1236	929			848			480	229		469	343	319	313	274	403	313	313	321	403	155	131	155	176	155
814	1863	127	1120	36			8			97	5	· - · · · · · · · · · · · · · · · · · ·	11	14	70	71	14	14	14	38	136	299	9	48	45	63	54
20%	45%	27%	25%	100%			100%			100%	%89		%66	42%	47%	20%	48%	34%	38%	38%	<i>%LL</i>	77%	37%	45%	32%	45%	38%
				gb[AAA03246.1]			gb AAA87064.1			dbj BAA23363.1	dbi BAA91205.1		emb CAB70782.1	-							gb AAD31764.1 AF1	21963 1					
				insulin-like growth	factor binding protein 2	[Homo sapiens]	platelet-endothelial	tetraspan antigen 3	Troudes outlott	OTK27 [Homo	(AK000496) unnamed	protein product [Homo sapiens]	(AL137516)	hypothetical protein	[Homo sapiens]	1					(AF121963) receptor	tyrosine kinase	precursor [Gallus	gallus	1		
		_		blastx.2			blastx.2			blastx.2	blastx.2		blastx.2								blastx.2	•					
				851			852			853	854		855								856						
				1056856	•		1056862			1056875	1056927		1056990								1057009						
				HOCPP16			HNOAH83	-		HE20U10	HODGM4	9	HODFR44								HCHND12		·				

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424 759	400	815	2206	2084	1687	1690	. 1687	1705	1768	1681	1687	1687	886		1937		1155	858	9/9				713	12/4
427	20	786	5.	1620	2154	2160	2136	2160	2160.	2109	2010	1977	116		1590		1	7	263				3	1212
%06 %86	39%	100%	<b>%86</b>	34%	39%	35%	37%	36%	36%	34%	34%	34%	38%		100%		%86	. 22%	<i>%LL</i>	· ·			%89 ***	47%
gb AAA59545.1			gb AAA51973.1						-	٠			gb AAC32982.1		emb CAB43289.1		pir B60191 B60191		gb AAF01349.1 AC0	05003_1			emb CAA91418.1	
myelin-associated	[Homo sapiens]		carboxyl ester lipase	[Homo sapiens]	1								junctional adhesion	musculus]	(AL)050143)	hypothetical protein [Homo sapiens]	transcription regulatory	protein Evi-1, short form - human	(AC005003) similar to	zinc finger protein	similar to AAB04121 1	(PID:g995935)	Homology with Squid	retinal-binding protein
blastx.2		٠	blastx.2										blastx.2		blastx.2		blastx.2		blastx.2				blastx.2	
857			858									,	859		998		861		862			M- 41	863	
1057157			1057170										1057212		1057219		1057260		1057272				1057307	
HBHAC29			HTPFW87			-							HISAF60		HRABO80		HADDF30		HDAAS58				HSDZG15	

	6 1196 5 1380	5 1252 6 1258	2 1625	3 1228 9 1573				2 357	3 1069		9 1272			5 659	4	2   1019			1 987		2 1021
	116	968 896	342	353				262	533		439			255		72					92
	64% 47%	100% 34%	100%	32%	28%	28%	75%	34%	%0/		100%			100%		%66			%66		%66
	gb AAC53430.1	gb AAC16014.1	dbj BAA22848.1	gb AAC18782.1				:	gb AAD31172.1 AF1	16865_1	emb CAB75301.1	-		emb CAA30318.1		gb AAC16672.1			pirlA32141 A32141	-	emb CAA49196.1
(PIR Acc. No. 11	laminin alpha 5 chain [Mus musculus]	(AF062075) leupaxin [Homo sapiens]	(AB003184) ISLR [Homo sapiens]	prolargin [Homo	Corrording	•			(AF116865) hedgehog-	interacting protein	(AL035587)	dJ475N16.1 (CTG4A)	[Homo sapiens]	cellular retinol binding	protein Homo sapiens	(AF002282) alpha-	actinin-2 associated	LIM protein [Homo	follistatin 1 precursor -	human	antigenic surface
	blastx.2	blastx.2	blastx.2	blastx.2			٠		blastx.2		blastx.2			blastx.2		blastx.2			blastx.2		blastx.2
	864	865	998	898					698		870	) ; !		871		872			873	) ; ;	874
	1057393	1057478	1057561	1057797					1057842		1057880			1057915		1057948		, .	1057958		1057979
	HPDVY52	HHESW02	HVVBW8 4	HSLJC80					НЕОАФ12		HVVRT41	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		HAZAE42		HPRBN60			HOVCZ68		H6EDF71

				[Homo sapiens]				
HCOOF60	1058001	875	blastx.2	ubiquitin carrier protein E2 - human	pir B42856 B42856	%66	133	855
HVVBH81	1058059	928	blastx.2	hnRNP U protein [Homo sapiens]	emb CAA46472.1	%66	227	2644
HSPTJ51	1058172	877	blastx.2	SWI/SNF complex 155	gb[AAC50693.1]	%56	51	1004
				KDa subunit [Homo		%06	51	1043
				sapiens		73%	45	1055
HOPKC80	1058174	878	blastx.2	(AJ011497) Claudin-7 [Homo sapiens]	emb CAA09626.1	%66	348	086
HOCPT58	1058250	879	blastx.2	(AF037261) SH3-	gb AAC09244.1	100%	121	765
				containing adaptor		94%	19	126
				molecule-1 [Homo				
HPCTP25	1058287	880	blastx.2	gamma-	gb AAB18827.1	%86	72	1553
				aminobutyraldehyde				
				dehydrogenase [Homo				
				sapiens				Ì
HODKMS	1058305	881	blastx.2	(AB008789) grb7	dbj BAA29059.1	%86	58	666
2				protein [Homo sapiens]				
HCONB89	1058316	882	blastx.2	acid ceramidase [Homo	gb[AAC50907.1]	%66	118	1302
				sapiens				
HBPND88	1058432	884	blastx.2	carboxyl terminal LIM	gb AAC05580.1	%66	142	1128
				domain protein [Homo	••			
H6EEO05	1058438	885	blastx.2	(AL117423)	emb CAB55915.1	%66	100	1527
				hypothetical protein	-			•
				[Homo sapiens]		·		
HFIVR61	1058451	988	blastx.2	interferon beta 2a	emb CAA00839.1	%66	214	777

				[Homo saniens]				
HVVBX28	1058458	887	blastx.2	SH3 domain-containing	gb[AAC50592.1]	%96	53	493
•				protein SH3P17 [Homo		46%	308	466
	·			sapiens		36%	104	301
HVVBI38	1058475	888	blastx.2	factor H [Homo	emb CAA68704.1	%66	294	2291
	-			sapiens		25%	336	2264
•						76%	294	2291
						25%	501	2219
						78%	1083	2288
						27%	1185	2099
HUKEJ46	1058539	688	blastx.2	(AF081507) signaling	gb AAC33967.1	%86	479	1165
				molecule LEFTY-B		%66	70	489
,				[Homo sapiens]			-	
HDTFT47	1058588	890	blastx.2	lymphocyte antigen	gb[AAA36236.1]	%86	2	268
				[Homo sapiens]		91%	258	398
HSSFS71	1058596	891	blastx.2	ESP1/CRP2 [Homo	dbj BAA07703.1	%56	29	460
				sapiens		77%	41	265
				-		34%	219	512
НЅЪЈН63	1058612	892	blastx.2	(AB045180) toll-like	dbj BAB19259.1	%76	192	1358
				receptor 9 [Homo		100%	107	190
				sapiens		25%	128	184
						45%	122	181
						28%	131	181
HAHGD24	1058622	893	blastx.2	laminin alpha 5 chain [Mus musculus]	gb AAC53430.1	61%	80	1024
HTAEV85	1058723	894	blastx.2	(AJ005566) SPR2H	emb CAA06595.1	43%	408	256
				protein [Mus musculus]		64%	2500	2459
						20%	1784	1719
						35%	544	485
HPMME44	1058928	895	blastx.2	HCMVUL126 [human	emb CAA35328.1	%96	78	329

	1679			1438	2670	1667	456	743	492	273	100	071	253	1776			•		1827		1251			214	336
	483 56			83	1522	1431	7	414	241	434	252	200	288	160					175		1102			41	175
	%88 %66			%86	94%	%89	87%	%08	%86	7009	7009	0270	83%	100%					73%		<b>%98</b>			%28	70%
	emb CAA61863.1	i		gb AAA63923.1			gb AAA51922.1		emb CAA35328.1	db:IB A A01205 11	h:cozi cwydlfon			gb AAC96010.1					gb AAD26207.1 AF1	17330_1	gb AAB00807.1			gb AAC40055.1	
herpesvirus 5]	26S protease subunit [Sus scrofa]			homolog of yeast mutL	gene [Homo sapiens]		cathepsin D [Homo	sapiens]	HCMVUL126 [human	(AV000406)	(Arrayov-700) umidined	protein product Inomo	sapiens]	(AF026291)	chaperonin containing	t-complex polypeptide	1, delta subunit; CCT-	delta [Homo sapiens]	(AF117330) unknown	[Rattus norvegicus]	ZZ:beta-Gal' IgG-	binding fusion protein	[unidentified cloning 1	(AF037272) WAP	four-disulfide core
	blastx.2		-	blastx.2			blastx.2		blastx.2	Flooty 2	UtastA:4			blastx.2		-			blastx.2		blastx.2			blastx.2	
	268	•		868			668		006	001	<u>.</u>			902			٠		903		904			905	
	1058977			1059006			1059050		1059085	1050102	7016601			1059145				,	1059180	-	1059186			1059241	-
	HSPSG28			HTGFW12			HOFMT75		HARNB17	595) duan	COONT TI			HAOSG15					HHEND31		HBMSN62			HOVCJ46	

	1348	1191	1698	985	1996 508 2310 2296	955	1048	496
	92	436	427	\$	212 188 2209 2219	158	125	275
	%66	100%	100%	100%	100% 37% 32% 30%	%66	%16	52%
	gb AAD34341.1 AF1 17646_1	gb[AAC02781.1	dbj BAA13404.1	gb AAA50779.1	gb AAA35963.1	gb AAC39802.1	gb AAF34411.1	emb CAA20980.2
domain protein [Rattus norvegicus]	(AF117646) long CBL-3 protein [Homo sapiens]	bikunin [Homo sapiens]	Similar to Human tesican (S33293) Homo sapiens]	protein tyrosine phosphatase [Homo sapiens]	hematopoietic cell phophatase [Homo sapiens]	(AF062317) p120 catenin isoform 1B Homo sapiens	(AF169284) LIM and cysteine-rich domains protein 1 [Homo 1	(AL031629) similar to RNA recognition motif. (aka RRM, RBD, or 1 1
	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2
	906	806	606	910	911	912	913	914
	1059394	1059532	1059626	1059692	1059710	1059743	1059764	1059784
	HWLEP14	HDABR73	HOGAJ24	HTJMV05	HOOIL70	HUNAE87	НТРНО01	НДР WК 69

1267		1216		1213		832	•			635			1150	1380	959		581		808		189	308
65		575		215		23				447			1362	1487	18		207		197		1	189
%66		%86		100%		62%				100%			43%	47%	91%		39%		79%		%02	100%
gb[AAC12708.1		emb CAB56027.1		gb AAD30062.1		gb AAD12719.1				gb AAA58350.1		,	gb AAA88036.1		emb CAB70887.1		gb AAB41727.1		dbj BAA07295.1		emb CAA55356.1	
(AF008551) aurora-	related kinase 1 [Homo sapiens]	(AL117639)	hypothetical protein [Homo sapiens]	(AF132856) suppressor of G2 allele of skp1	homolog [Homo sapiens]	(AF078798)	extracellular signal-	ERK7 [Rattus	norvegicus]	replication protein A	14kDa subunit [Homo	sapiens]	unknown protein	[Homo sapiens]	(AL137714)	hypothetical protein	PF20 [Chlamydomonas	reinhardtii]	ATPase subunit 6	[Homo sapiens]	sialidase [Homo	sapiens
blastx.2		blastx.2		blastx.2		blastx.2	-			blastx.2			blastx.2		blastx.2		blastx.2		blastx.2		blastx.2	
915		917	<u>-</u> .	918	,	919				920			921		922		923		924		925	
1059849		1059967		1059969		1060137				1060193			1060382		1060391		1060415		1060495		1060656	
HPCOK03		HOOJC15		HODFG47		HBIPC05				HOPJJ32			HNOBN20		HOCPX74		HTEPP27		HLYAJ79		HC00011	,

HWMGI51   1060711	1060711	926	blastx.2	hypothetical protein	dbj BAA10294.1	41%	16	615
				Synechocystis sp.				
HDPJG33	1060780	927	blastx.2	GTP binding protein	emb CAA36803.1	78%	543	863
				[Mus musculus]	•	%89	439	669
				: : : : : : : : : : : : : : : : : : : :		37%	933	1061
HLYAE20	1060967	928	blastx.2	hypothetical protein 2	pir S12206 S12206	%19	1002	1259
				(rRNA external				
			···	transcribed spacer) - 1				
HKZAR86	1060972	929	blastx.2	ERF-2 [Homo sapiens]	emb CAA55592.1	%66	322	1302
HAOTX62	1061036	930	blastx.2	SPIN protein [Homo	emb CAA75163.1	100%	11	298
				sapiens				
HOCQG58	1061180	931	blastx.2	26S PROTEASOME	sp Q13200 PSD2_HU	100%	63	2786
,				REGULATORY	MAN			
<u> </u>				SUBUNIT S2 (P97)				
	40,440,4	988		LOMORII	1 + 4 00000 4 4 1	216	0,0	600
HOFNH33	1061185	932	blastx.2	MRAS2 gene product	gb AAA83994.1	31%	760	873
				Mucor racemosus				
HAJAQ63	1061238	933	blastx.2	matrin 3 Rattus	gb AAB63955.1	%06	1038	2570
,	٠			norvegicus		94%	293	1105
				)		24%	2361	2810
	-					%86	3308	3478
					,	24%	2634	2813
						31%	2646	2759
						35%	1755	1847
						35%	3362	3454
						40%	3837	3896
HVVBK70	1061258	934	blastx.2	(AJ000414) Cdc42-	emb CAA04062.1	92%	653	1276
				interacting protein 4		100%	31	468
				[Homo sapiens]		78%	627	1055
HVVBA82	1061332	935	blastx.2	(AL022313)	emb CAA18439.1	100%	3	200

			dJ1119A7.1				
			(mitochondrial		٠		
			sapiens]				
936		blastx.2	neurocalcin [Bos	dbj BAA01706.1	100%	114	692
			taurus		, 555	,	
937		blastx.2	(AF104419) decoy	gb AAD03056.1	%66	103	945
			receptor 3 [Homo		100%	938	1000
			sapiens				
939		blastx.2	(AK000496) unnamed	dbj BAA91205.1	71%	co.	254
			protein product [Homo	-	73%	1766	1641
			sapiens				
940 b	þ	blastx.2	rhoHP1 [Homo	dbj BAA19652.1	100%	3	326
			sapiens]	-			
941 bl	3	blastx.2	(AF151882) CGI-124	gb AAD34119.1 AF1	100%	244	741
			protein [Homo sapiens]	51882_1			
942 bl	19	blastx.2	(AJ002030)	emb CAA05152.1	100%	33	206
			progresterone binding				
	_		protein [Homo sapiens]				
943 b	٩	blastx.2	tight junction (zonula	gb AAA02891.1	100%	e	1631
-			occludens) protein ZO-	-			
	_		1 Homo sapiens				
944 b	<u> </u>	blastx.2	contains 10 ankyrin-	gb AAC96986.1	33%	118	957
			like repeats; similar to		78%	73	726
			human ankyrin, 1		32%	100	657
			bursaria Chlorella virus		30%	88	561
			[1]				
945	1	blastx.2	100 kDa protein	emb CAA45756.1	%86	2	1300
			Kattus norvegicus				

953	941	398	398	941	914	941	929	941	914	686	929	926	941	167	929	149	149	377	155	914	149	365	155	143	371	944	143	188	215
3	447	27	21	969	693	969	681	999 .	693	999	684	657	999	12	969	9	15	6	33	829	n	6	33	n	246	837	m	15	66
%66	37%	32%	34%	45%	40%	41%	42%	38%	36%	32%	34%	34%	34%	43%	35%	45%	47%	31%	46%	35%	40%	73%	35%	38%	40%	41%	34%	29%	78%
gb[AAB37459.1]																		•							-	-			
latent transforming	growth factor-beta-	binding protein-2, 1 1	, ;						-							,													-
blastx.2					,									•		•													
946			<u>.</u>									<u>.                                    </u>				:													
1061886									•																				
HLCLX57																													

252	483	468	1130	1290	391	1323	1528	1805	2170	1553	2338			1234	1165		1654			1535		
118	280	427	519	181	29	1141	1460	1710	1883	1506	284			200	95		209			798		
35%	22%	21%	%66	%98	<b>%66</b> .	27%	34%	33%	27%	20%	%66			%66	47%		100%			%16		
			gb AAA30514.1	dbj BAA91446.1							gb AAC14573.1			gb AAD46623.2 AF1 62680 1	gb AAF21308.1		gb AAA84934.1			emb CAB43253.1		
			factor activating exoenzyme S [Bos taurus]	(AK000963) unnamed	protein product [Homo	sapiens	1				(AF059617) serum-	inducible kinase [Homo	sapiens	(AF162680) STRIN protein [Homo sapiens]	(AF113596) mosaic	serine protease epitheliasin [Mus musculus]	retinoic acid- and	interferon-inducible	58K protein RI58 [Homo saniens]	(AL050060)	hypothetical protein Homo sapiens	7
	,		blastx.2	blastx.2							blastx.2			blastx.2	blastx.2		blastx.2			blastx.2		
			947	948							949			950	951		952			954		
		,	1061935	1062057							1062079			1062084	1062123		1062139			1062309		
			HMALF63	HACMR36							HAOSM08			HTEFM89	HCHAK72	,	HPAME12			HCE4F10		

	790	96	63	248	887	1419	571	263		946			2129	2044		1663	1297	1267	1079		2561				1782	529	204
,	191	25	1	361	1093	574	416	171		272			417	1997		2	70	26	1267		156				547	203	
	100%	%2%	57%	%L6	24%	%66	100%	87%		%66			38%	47%		%86	30%	79%	100%		%66				85%	91%	85%
	gb AAC39582.1			emb CAA51320.1		gb AAC28019.1				dbj BAA21881.1			gb AAD05305.1			gb AAD43756.1 AF1	52495_1	,	gb AAF24048.1 AF0	90934_1	gb[AAA36528.1]				emb CAA73944.1		
	(AF007170) unknown	[curatdee outour]		endonuclease G [Bos	taurus]	(AF062006) orphan G	protein-coupled	receptor HG38 [Homo	sapiens	(AB006679) ATP	binding protein [Homo	sapiens	(AF111069) latrophilin	2 splice variant baaae	[Bos taurus]	(AF152495)	protocadherin beta 2	[Homo sapiens]	(AF090934) PRO0518	[Homo sapiens]	protein tyrosine	phosphatase (EC	3.1.3.48) [Homo	sapiens]	latent TGF-beta	binding protein-4	[Homo sapiens]
	blastx.2			blastx.2		blastx.2				blastx.2			blastx.2			blastx.2			blastx.2		blastx.2				blastx.2		
	955			926		957				958	-		959			1961			.796		696				964		
	1062328			1062346		1062369				1062431			1062435			1062544			1062574		1062586				1062626		
	HBCBE63			HSSJO19		HE8NQ23	,			HTELJ95			HTPCP50			HFKIT82			HE2LW42		HOGCE44				HOVJJ72		

30% 562 45% 16 29% 16 30% 1637 33% 1132 41% 4 41% 1132 41% 4 44% 1132 41% 1453 38% 1453 36% 1473 36% 1473 36% 209 25% 562 66% 215 55% 215 55% 215 55% 215 55% 215 55% 215 55% 215		
30% 45% 29% 30% 31% 31% 31% 31% 31% 32% 32% 34% 34% 34% 32% 32% 32% 32% 32% 32% 32% 32% 32% 32	40%	29%
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346	307	271	210	265	310	921	1930	1861	265	460	1838	1842	1891	1450	95	406	584	569	1421	1969	1421	938	1352	1493	1266	320		1392
215	212	209	4	215	212	841	1766	1667	230	215	1764	1792	1859	1391	12	254	549	838	1633	2007	1621	1024	1552	1525	1295	15		4
37%	37%	45%	73%	22%	30%	29%	32%	32%	28%	73%	%95	28%	63%	40%	37%	37%	%99	87%	34%	%69	30%	38%	30%	63%	70%	100%		%56
							•	,														-				gb AAA35914.1		emb CAA79635.1
	٠		•													•					,					guanine nucleotide	exchange factor [Homo sapiens]	thrombospondin-4
																										blastx.2		blastx.2
																										965		996
																										1062628		1062629
																										HODBT14		HBOEB83

	247	247	247	337	514	247	247	490	468	247	259	468	462	468	468	456	471	468	468	468	468	423	313	459	1112		814	472
	2	7	7	7	7	7	2	2	250	2	2	250	250	259	250	. 250	250	250	250	250	250	250	2	253	171		188	143
	74%	74%	73%	26%	40%	%69	%69	41%	78%	%19	%99	71%	73%	77%	71%	75%	20%	%69	71%	64%	63%	72%	38%	46%	20%		100%	31%
	gb AAA79179.1			÷																					dbj BAA91301.1		gb AAA58659.1	
[Homo sapiens]	repressor	transcriptional factor	[Homo sapiens]	1							•														(AK000642) unnamed	protein product [Homo sapiens]	high mobility group 2	protein [Homo sapiens]
	blastx.2		•																						blastx.2		blastx.2	
	196																								896		696	
	1062631			•																					1062655		1062679	
	НОДСТ96																								HTXJE60		HUSIQ62	,

1562 140	649	1910	1063	958	1055	949	460	705	705	705	705	999	702	969	705	705	705	705	705	705
975	365	360	728	728	735	734	119	1	-		-	-	1	-	-				10	
100% 93%	%26	%66	36%	36%	36%	38%	27%	%86	77%	%91	<b>392</b>	81%	75%	77%	75%	74%	%91	74%	75%	74%
gb AAF29140.1 AF1 61525_1	dbj BAA08312.1	gb AAD51367.1 AF1 77203_1	emb CAA46283.1		-	-	•	gb AAA59469.1				-				-			-	
(AF161525) HSPC177 [Homo sapiens]	 LIMK-2 [Homo sapiens]	(AF177203) cerebral cell adhesion molecule [Homo sapiens]	extensin [Volvox	carteri]	ı			zinc finger protein	[Homo sapiens]	•	•									
blastx.2	blastx.2	blastx.2	blastx.2					blastx.2												
971	972	973	974			-		975					***							
1062718	1062743	1062785	1062795					1062840												
HKBAK29 1062718	 HPMCX26	HFKHF51	HUCPE28					HPWAH30												

705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	705	815	815	815	815	815	815	815	815	815	815	815	815	815
-		_		-	Т	_	-	_	-	_	П	-	1	-	_	163	702	723	723	702	723	702	723	702	723	702	702	726	723
74%	72%	73%	72%	71%	72%	71%	71%	71%	71%	70%	71%	71%	71%	%19	63%	26%	25%	51%	51%	42%	48%	42%	45%	39%	45%	36%	36%	46%	45%
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815	908	815	815	815	815	809	815	815	815	210	190	259	478	116	419	245
702	723	702	723	723	723	726	726	726	726	10	2	2	35	3	 42	9
36%	. 45%	36%	41%	41%	41%	42%	43%	43%	43%	%56	%58	%68	%86	100%	100%	100%
							•			gb AAA19775.1	gb AAB59501.1	dbj BAA07290.1	gb AAA24905.1	gb[AAB65437.1]	gb AAA82926.1	emb CAA52882.1
				•						cytochrome b [Homo sapiens]	amyloid-beta protein [Homo sapiens]	NADH dehydrogenase subunit 1 [Homo sapiens]	TraC protein (gtg start codon) [Plasmid F]	(AF013215) ribosomal protein S2 [Bos taurus]	protein kinase C inhibitor-I [Homo	Sapiens Keratin 8 [Homo samiens]
										blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2
										926	216	8/6	982	586	986	286
										H6EDQ51R	HA5AU29R	HACBX26 R	HACMH72 R	HACMS55 R	HACMX77 R	HACMZ45 R
										н6ЕDQ51	HASAU29	HACBX26 HACBX26	HACMH72 HACMH72 R	HACMSSS HACMSSS R	HACMX77	HACMZ45 HACMZ45

466	404		809	];	91		200		481	522		96			376	134				549				267	329		276	
2	267		m		2		96		62	481		П			116	54								166	273		9/	
%19	78%		%98		100%		%56		95%	92%		%96			74%	74%				73%				%88	25%		%06	-
gb AAB94632.1			gb AAA36044.1		emb CAA31376.1		gb AAA60284.1		emb CAA24026.1			gb AAB72005.1			gb AAC12952.1					emb CAA39794.1		•		gb[AAA36471.1]			gb AAA36161.1	
(AC003956)	acetolactate synthase	[Homo sapiens]	40-kDa keratin protein	LIOUID Sapiens	cytokeratin 8 (279 AA)	[Homo sapiens]	ribosomal protein S17	[Homo sapiens]	URF 1 (NADH	dehydrogenase subunit)	[Homo sapiens]	(AF016252)	Spinophilin [Rattus	norvegicus]	(AC004544)	cytochrome C oxidase;	match to P14406	(PID:g117121) [Homo	sapiens]	delta- aminolevulinate	synthase	(housekeeping) [Homo	sapiens]	acidic ribosomal	phosphoprotein (P1)	[Homo sapiens]	laminin-binding protein	[Homo sapiens]
blastx.2			blastx.2		blastx.2		blastx.2		blastx.2			blastx.2			blastx.2				,	blastx.2				blastx.2			blastx.2	
886			991		992		993		966			866			666			-		1002				1004	·		1005	
HACND54	٦.		HACNF21R		HACNF41R		HACNI47R		HADET44R		•	HAHHD12	묎		HALSGIIR					HAOSB87R		•		HAOSE70R			HAOSF68R	
HACND54   HACND54			HACNF21		HACNF41		HACNI47		HADET44			HAHHD12			HALSG11					HAOSB87				HAOSE70			HAOSF68	

452	330	142	142	233	224	332	405	255	353	303	200	379	494	27	343	96	572	429	451	170			365	454
111	10	2	7	135	135	156	223	223	3	4	30	224	336	1	98	4	432	340	2	3	,		36.	398
82%	%56	100%	100%	75%	73%	46%	39%	72%	%56	100%	94%	%96	71%	%88	91%	93%	22%	%08	%86	94%			%96	84%
gb AAA60286.1	gb AAA03081.1	pir JH0302 JH0302	-						emb CAA26879.1	gb AAA36155.1	gb AAA51681.1	- -			gb AAD53521.1 AF1	55581_1			gb AAD27722.1 AF1 32947 1	dbj BAA02991.1			emb CAA39417.1	
ribosomal protein S20 [Homo sapiens]	ribosomal protein L7 [Homo sapiens]	polyubiquitin - tobacco	hornworm (fragments)	` •	-			•	lactate dehydrogenase-A [Homo sapiens]	Ku protein subunit [Homo sapiens]	S-	adenosylhomocysteine	hydrolase [Homo	sapiens	(AF155581)	proteasome subunit	beta 7 [Danio rerio]	ı	(AF132947) CGI-13 protein [Homo sapiens]	carboxyl	methyltransferase	[Homo sapiens]	HL23 ribosomal	protein [Homo sapiens]
blastx.2	blastx.2	blastx.2							blastx.2	blastx.2	blastx.2				blastx.2				blastx.2	blastx.2			blastx.2	
1006	1007	1008							1009	1011	1012				1013				1021	1023			1026	
HAOSG95 R	HAOSI79R	HAOS127R							HAOSJ33R	HAOSK38 R	HAOSL36R				HAOSL47R				HAOTE06R	HAOTF90R			HAOTI07R	
HAOSG95	HAOSI79	HAOSJ27							HAOSJ33	HAOSK38	HAOSL36				HAOSL47				HAOTE06	HAOTF90			HAOTI07	

361 405	9 356 376		57 452	1 201									
%08	88%		%16	100%	100%	100% 90% 79% 90%	100% 90% 79% 90% 100%	100% 90% 79% 90% 100% 42%	100% 79% 90% 100% 42%	100% 90% 79% 90% 100% 42% 98%	100% 90% 100% 100% 42% 98% 98%	100% 90% 79% 100% 42% 62% 97% 26% 36%	100% 90% 79% 90% 100% 42% 42% 62% 98% 36% 36%
	sp Q99426 CKAP_H UMAN		emb CAA30792.1	sp P05787 K2C8_HU MAN	sp P05787 K2C8_HU MAN dbj BAA07292.1  pir JC1348 JC1348	sp P05787 K2C8_HU MAN dbj BAA07292.1  pir JC1348 JC1348 dbj BAA11465.1	sp P05787 K2C8_HU MAN dbj BAA07292.1  pir JC1348 JC1348 dbj BAA11465.1  gb AAC16021.1	sp P05787 K2C8_HU MAN dbj BAA07292.1  pir JC1348 JC1348 dbj BAA11465.1  gb AAA91639.1	sp P05787 K2C8_HU MAN dbj BAA07292.1  pir JC1348 JC1348 dbj BAA11465.1  gb AAC16021.1  gb AAA91639.1	sp P05787 K2C8_HU MAN dbj BAA07292.1  pir JC1348 JC1348 dbj BAA11465.1  gb AAC16021.1  gb AAC16021.1  emb CAA79716.1			
	CYTOSKELETON-	API. LDING	I to										
	blastx.2		blastx.2	blastx.2	blastx.2 blastx.2	blastx.2 blastx.2	blastx.2 blastx.2	blastx.2 blastx.2 blastx.2	blastx.2 blastx.2 blastx.2 blastx.2	blastx.2 blastx.2 blastx.2 blastx.2 blastx.2	blastx.2 blastx.2 blastx.2 blastx.2 blastx.2	blastx.2 blastx.2 blastx.2 blastx.2 blastx.2 blastx.2	blastx.2 blastx.2 blastx.2 blastx.2 blastx.2 blastx.2 blastx.2
_	1027	•	1028	1029	1029	1029	1029	1029	1029	1029 1032 1033 1035	1029 1032 1033 1035 1037	1029 1032 1033 1037 1042	1029 1032 1033 1037 1042
	HAOTT79R		HAOTU79 R	HAOTW22 R	HAOTW22 R HAPNK45	HAOTW22 R HAPNK45 R	HAOTW22 R HAPNK45 R	HAOTW22 R HAPNK45 R HAPPR43R	1 1 1	HAOTW22 R HAPNK45 R HAPPR43R HAQML40 R HAUAK54 R	HAOTW22 R HAPNK45 R HAPPR43R HAUAK54 R	HAOTW22 R HAPNK45 R HAQML40 R HAUAK54 R HAZAC68	HAOTW22 R HAPNK45 R HAPPR43R HAUAK54 R HAUAK54 R HAZAD13
	HAOTT79		HAOTU79	HAOTW22							HAOTW22 HAPNK45 HAPPR43 HAUAK54 HAZAC68	HAPNK45 HAPPR43 HAUAK54 HAZAC68	HAOTW22 HAPNK45 HAQML40 HAQML40 HAZAD13

HAZAE44R   1045		blastx.2	fibronectin precursor	emb CAA26536.1	%86	84	512
			[Homo sapiens]		46%	105	335
			<b>1</b>		40%	105	413
					36%	123	347
					36%	69	392
			. •	-	35%	105	344
					33%	18	347
1046	9	blastx.2	unnamed protein	emb CAA62211.1	%96	2	466
			product [Homo sapiens]				
1051	`	blastx.2	KERATIN, TYPE II CYTOSKELETAL 8	sp P05787 K2C8_HU MAN	100%	72	260
			(CYTOKERATIN 8) (K8) (CK 1				
1052		blastx.2	protein arginine N-	gb AAC52622.1	%16	1	537
		•	methyltransferase		28%	497	280
•			[Rattus norvegicus]		81%	579	611
					34%	537	605
1053		blastx.2	(AF064205) dynactin 1 p135 isoform [Homo	gb AAD55812.1	100%	84	389
1056	T	blastx.2	(AL031427)	emb CAB46723.1	100%	83.	424
			dJ167A19.3 (novel				
			protein) [Homo		•	•	
		•	sapiens]				
					•		
1057	7	blastx.2	transmembrane protein	emb CAA66947.1	100%	3	323
	1						

	297	427 606	507 244 574	57	244 329	416	273	718	275	216
		371 457	313 116 506	206	249	415	115	77	39	1
	%86	%9 <del>7</del>	90% 100% 86%	61%	58% 44%	91% 88%	100%	%55 %86	%00T	87%
	emb CAB55922.1	dbj BAA91496.1	gb AAA29965.1	gb AAA58585.1	gb AAC23757.1	dbj BAA85270.1	pir S33413 S33413	gb AAA99891.1	emb CAA50793.1	gb AAC03787.1
[Oryctolagus cuniculus]	(AL117434) hypothetical protein [Homo sapiens]	(AK001079) unnamed protein product [Homo sapiens]	histone H3 [Spisula solidissima]	hemolysin [Acanthamoeba polyphaga]	(AC003040) unknown protein [Arabidopsis thaliana]	cytochrome c oxidase subunit 1 [Pan troglodytes]	NuMA protein - human	prolylcarboxypeptidase [Homo sapiens]	phospholipid hydroperoxide glutathione peroxidase [Homo sapiens]	(AF047470) malate
	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2
	1063	1065	1067	1068	1069	1071	1073	1074	1075	1076
	HBJHY72R P00B	HBXCG52 R	HCACS53R P00A	HCHAJ85R	HCHMM71 R	HCLBH21R	HCOMA72 R	HCOMB04 R	HCOMD38 R	HCOMD61
	HBJHY72	HBXCG52	HCACS53	HCHAJ85	HCHMM7 1	HCLBH21	HCOMA72	HCOMB04	нсомрз8	HCOMD61

287		655	522	86	646		491		540	301	268					470		176			282	
240		14	100	54	35		315		304	68	518					273		298			4	
75%		%08	71%	100%	%9 <i>L</i>		85%		%6S ·	%99	64%					%06		100%			%86	
		gb AAB03345.1	gb[AAA18502.1]		emb CAA55026.1		gb AAB00807.1		emb CAA86061.1							emb CAA71575.1	·	dbj BAA03853.1			gb AAC05826.1	,
dehydrogenase	precursor [Homo sapiens]	hypothetical protein 384D8_6 [Homo sapiens]	elongation factor 1	alpha [Oryctolagus cuniculus]	ribosomal protein L15	[Rattus norvegicus]	ZZ:beta-Gal' IgG-	binding fusion protein funidentified cloning 1	similar to 40S	ribosomal protein;	cDNA EST	CEMSA13F comes	from 1 1 gene; cDNA	EST EMBL:M79582	comes from this gene;	fused-ccdB	[Escherichia coli]	The polymorphysm	(RFLP) of this gene is	associated with 1 1	(AF042857) lung	cancer antigen NY-LU-12 variant A [Homo
		blastx.2	blastx.2		blastx.2		blastx.2		blastx.2		•					blastx.2		blastx.2			blastx.2	
		1078	1079		1080		1083		1084	,		-				1085		1087			1088	
R		HCOMF52 R	HCOMG28	R	HCOMG40 HCOMG40	~	HCOMI30R		HCOMI37R							HCOMIL11	8	HCOMM55	R		HCOMO58 HCOMO58	×
		HCOMF52	HCOMG28		HCOMG40		HCOMI30		HCOMI37						-	HCOMI.11		HCOMMS	5		HCOMO58	

	443	315	82	122	82	9/	82	291	82	128	82	79	116	119	188	333	424	467	616	999	221	69	148		610	245	89
	09	133	5	81	5	<b>∞</b>	S	142	11	81	S	11	81	84	3	190	335	426	104	267	m	4	65		251	147	3
	%66	%59	%96	100%	21%	23%	48%	34%	21%	62%	44%	45%	75%	%05	%28	91%	83%	71%	100%	21%	%86	81%	71%		77%	87%	100%
	dbj BAA83996.1	sp P09651 ROA1_H	UMAN								-				gb AAA51922.1				gb AAA16329.1		dbj BAA13528.1	gb AAC04502.1	·		gb AAC41945.1		
sapiens	(AB032025) ubiquitin [Canis familiaris]	HETEROGENEOUS	NUCLEAR	RIBONUCLEOPROTE	IN A1 1 (HNRNP	CORE PROTEIN A1).									cathepsin D Homo	sapiens			ribosomal protein L18	[Homo sapiens]	ribosomal protein S13 [Homo sapiens]	(AC004240) match to	Z43555 (NID:g572788)	Homo sapiens	5,10-	methenyltetrahydrofola	te synthetase [Homo
	blastx.2	blastx.2													blastx.2				blastx.2		blastx.2	blastx.2			blastx.2		
	1089	1090											•	•	1091				1093		1095	1099			1100.		
	HCOMW52 RP00B	HCOMX77	R												HCONC18	RP00B			HCONK56	R	HCONL49 R	HCONO17	2		HCON025	R	
	.HCOMW5	HCOMX77													HCONC18				HCONK56		HCONL49	HCONO17			HCONO25		

_				saniens		51%	481	579
-	HCONP44R	1101	blastx.2	H+-transporting ATP	pir A33281 A33281	%96	3	398
		,		synthase (EC 3.6.1.34)		%99	391	426
HCONR31	HCONR31	1104	blastx.2	ezrin (AA 1-586) [Homo sapiens]	emb CAA35893.1	%86	3	281
HCONU03	HCONU03	1105	blastx.2	glyceraldehyde 3-	gb AAA52496.1	92%	3	518
_	24			phosphate		%76	511	627
				dehydrogenase (EC 1.2.1.12) [Homo		53%	611	889
				sapiens				
HCONW6	HCONW62	1106	blastx.2	Human tetracycline	emb CAA92577.1	77%		297
	2			transporter-like protein		85%	330	473
				mRNA [Homo sapiens]		%69	529	645
						36%	9	119
HC00G32	HC00G32	1111	blastx.2	ornithine decarboxylase	dbj BAA13497.1	%16	5	334
	<b>8</b>			antizyme [Homo				
	•			sapiens				
HC00G37	HC00G37	1112	blastx.2	ribosomal protein S17	gb AAA60284.1	92%	78	482
1	N 11000171B	1117	bloots 2	colportin I light chain	αh  Δ Δ 3 0 4 2 3 1	100%	64	354
1/100011	IICOOII IIV	<b>+</b> † † †	7:VIG91V	Bos taurus]				
HCOOI79	HCOOI79R	1115	blastx.2	beta-subunit [Bos	emb CAA29094.1	17%	215	703
				taurus	· -	20%	681	740
HCOOM18	HCOOM18	1116	blastx.2	keratin 18 [Homo	gb AAA59461.1	%56	14	640
	R			sapiens]		100%	616	069
73	HCOOM73 HCOOM73	1117	blastx.2	claudin-10 [Homo	gb AAC79506.1	%06	56	694
-	R			sapiens]				
HC00046	HC00046	11118	blastx.2	protein-tyrosine	emb CAA48338.1	100%	2	166

	439	470 652		515	406 748	552	310	365			426			367	
	95	171 473		30	233	49	218	330	·		22			111	
	100%	%66 77%		25%	62% 52%	<u>%8L</u>	%28	83%			91%			98% 62%	
	gb AAA35646.1	gb[AAC69149.1]		gb AAD33912.1 AF1	43815_1	gb AAA59461.1	gb AAD25980.1 AF0	95770_1			sp P32119 TDX1_HU MAN			pir A56846 A56846	
phosphatase [Homo	neutral protease alpha subunit [Homo sapiens]	(AF019661) zeta proteasome chain:	PSMA5 [Mus musculus]	(AF143815) ribosomal	protein [Bos taurus]	keratin 18 [Homo sapiens]	(AF095770) PTH-	responsive	osteosarcoma D1	protein [Homo sapiens]	THIOREDOXIN PEROXIDASE 1 (THIOREDOXIN-	PEROXIDE 1 (NATURAL KILLER	CELL ENHANCING FACTOR B) (NKEF- B).	ribosomal protein L19 -	·.
	blastx.2	blastx.2		blastx.2		blastx.2	blastx.2				blastx.2			blastx.2	
	1120	1121		1122		1123	1126				1127	-		1129	
~	HCOOT43 R	HCOOT68	4	HCOOU56	묎.	HCOOW72 R				•	HCOOY43 R			HCOPB03R	
	HC00T43	нсоот68		HCOOUS6		HCOOW7	HCOOX48				HC00Y43			HCOPB03	·-

88	541	400		310	337		507	593		579	20	•	
3	104	2		62	122		4	3		572	1		
%96	%16	%66		77%	%59		74%	%16		%58	3		
emb[CAA34890.1]	gb AAA31492.1	gb AAB46780.1	·	emb CAA67127.1	gb AAC52076.1		dbj BAA03401.1	emb[CAA71256.1]		emb CAA20237.1			
homologue of yeast IPP isomerase [Homo sapiens]	ubiquitin conjugating- protein [Oryctolagus cuniculus]	serine protease homolog=NES1	[human, mammary epithelial cells, 76N, Peptide, 276 aa] [Homo saniens]	fused; toxic gene [synthetic construct]	(AF026246) HERV-E	envelope glycoprotem [Homo sapiens]	'human homologue of rat ribosomal protein	L9' [Homo sapiens] MEMD protein [Homo	sapiens]	(AL031228)	chain alcohol	dehydrogenase family	member (HKE6, RING2)) [Homo
blastx.2	blastx.2	blastx.2		blastx.2	blastx.2		blastx.2	blastx.2		blastx.2			• .
1130	1131	1132		1134	1136		1138	1139		1140			
HCOPC45R	нсорр67В	HCOPE27R		HCOPI09R A	HCOPO34R		HCOPO88R	HCOPV41R		HCOPZ15R			
HCOPC45	НСОРD67	HCOPE27		HCOPI09	HCOPO34		HCOPO88	HCOPV41		HCOPZ15			

				Longing				
	_			Sapiciis				
HCOQA38		1141	blastx.2	hBD-1 [Homo sapiens]	emb CAA63405.1	100%	89	271
HCOQB12	HC0QB12	1143	blastx.2	(AC005600) tuberin	gb AAC34210.1	100%	4	309
	R			[Homo sapiens]		84%	308	346
HC0QD29	нсоор29	1147	blastx.2	S3 ribosomal protein	gb AAB19349.1	93%	16	288
	~			[human, colon, Peptide,		22%	552	707
				243 aa] [Homo sapiens]		%09	632	730
нсобр38	HCOQD38 R	1148	blastx.2	HMG1 protein (AA 1 - 215) [Bos taurus]	emb CAA31284.1	%56	112	929
HC00D49	НСООД49	1149	blastx.2	H+-transporting ATP	pir A32019 PWBOG	%68	35	532
,				synthase (EC 3.6.1.34)	,	%59	513	692
				gamma chain precursor - bovine				
HC00G37		1151	blastx.2	1-8D [Homo sapiens]	emb CAA40625.1	%66	51	386
,	, ~			1		100%	386	409
HC00H46	НСООН46 НСООН46	1153	blastx.2	mucin MUC5B [Homo	gb AAC51343.1	100%	95	343
	R		,	sapiens		64%	324	365
HCOQJ06	HCOQ106R	1156	blastx.2	37kD Laminin receptor	emb CAA64147.1	%58	56	361
				precursor /p40		28%	352	474
				ribosomal associated			•	
				protein [Gallus gallus]				
HCOQ107	HCOQJ07R	1157	blastx.2	laminin-binding protein	gb AAA36161.1	%88	9	959
				[Homo sapiens]				
нсоолу	HCOQJ79R	1159	blastx.2	elongation factor 1	gb AAA18502.1	83%	-	471
				alpha [Oryctolagus				
				cuniculus]				
<b>HCOQK86</b>	HCOQK86   HCOQK86	1160	blastx.2	(AF038129)	gb AAB92373.1	94%	4	456
	R			polyubiquitin [Ovis		94%	4	456

0440	440 440 24 328 317	440 440 24 328 328 17 17 17 151	440 440 24 328 328 17 17 151 151 102	440 440 24 328 328 17 17 151 151 102 91 272	440 440 24 328 328 17 17 151 151 102 91 272	440 440 24 328 328 17 17 151 151 102 91 272 272 421 495	440 440 328 328 328 17 17 151 151 102 102 32 421 495 495
30%							
	gb AAA56823.1  dbj BAA13450.1	gb AAA56823.1  dbj BAA13450.1  emb CAA00898.1  gb AAA52367.1	gb AAA56823.1  dbj BAA13450.1  emb CAA00898.1  gb AAA52367.1  gb AAA36472.1	gb AAA56823.1  dbj BAA13450.1  emb CAA00898.1  gb AAA52367.1  gb AAA36472.1  gb AAA19639.1	gb AAA56823.1  dbj BAA13450.1  gb AAA52367.1  gb AAA36472.1  gb AAA19639.1	gb AAA56823.1  dbj BAA13450.1  gb AAA52367.1  gb AAA36472.1  gb AAA19639.1  gb AAA85576.1  emb CAA81263.1	gb AAA56823.1  dbj BAA13450.1  gb AAA52367.1  gb AAA36472.1  gb AAA19639.1  emb CAA81263.1  dbj BAA19210.1
gb AAA5	dbj BAA	dbj BAA emb CAz gb AAA:	dbj BAA emb CA/ gb AAA:	dbj BAA emb CA/ gb AAA: gb AAA:	dbj BAA emb CA/gb AAA4	dbj BAA emb CA/ gb AAA3 gb AAA3 emb CA/	
	glutathione S- transferase-pi [Homo sapiens] DRPLA protein [Mus musculus]	e Spi [Homo rotein [Mus mo sapiens] factor 1- mo sapiens]	e Spi [Homo rotein [Mus mo sapiens] no sapiens] mo sapiens] somal cotein (P2) piens]	e Spi [Homo rotein [Mus mo sapiens] mo sapiens] somal rotein (P2) piens] mslocation eta subunit niliaris]	e Spi [Homo rotein [Mus mo sapiens] mo sapiens] somal rotein (P2) piens] uslocation eta subunit niliaris]	e Spi [Homo rotein [Mus mo sapiens] mo sapiens] somal votein (P2) piens] uslocation eta subunit niliaris] sin [Homo -siferase piens]	e Spi [Homo rotein [Mus mo sapiens] rfactor 1- mo sapiens] somal sotein (P2) piens] mslocation weta subunit niliaris] sin [Homo -sin [Homo -
glutathione S.	ransterase-pu [Homo sapiens] DRPLA protein [Mus musculus]	ransferase-pu [Homo sapiens] DRPLA protein [Mus musculus] TIMP [Homo sapiens] elongation factor 1- alpha [Homo sapiens]	ransferase-pu [Homo sapiens] DRPLA protein [Mu musculus] TIMP [Homo sapien elongation factor 1-alpha [Homo sapien acidic ribosomal phosphoprotein (P2) [Homo sapiens]	ransferase-pt [Homo sapiens] DRPLA protein [Musmusculus] TIMP [Homo sapiens acidic ribosomal phosphoprotein (P2) [Homo sapiens] protein translocation complex beta subunit [Canis familiaris]	ransterase-pu [Homo sapiens] DRPLA protein [Mumusculus] TIMP [Homo sapiens acidic ribosomal phosphoprotein (P2) [Homo sapiens] Protein translocation complex beta subuni [Canis familiaris] B4-2 protein [Homo sapiens]	ransferase-pt [Ho sapiens]  DRPLA protein [Imusculus]  TIMP [Homo sapiacide ribosomal phosphoprotein (Flomo sapiens]  protein translocation fermiliaris]  Protein familiaris]  B4-2 protein [Hoto sapiens]  catechol O-methyltransferase  [Homo sapiens]	ransterase-pi [Homo sapiens]  DRPLA protein [Mus musculus]  TIMP [Homo sapiens]  elongation factor 1- alpha [Homo sapiens]  acidic ribosomal phosphoprotein (P2) [Homo sapiens]  protein translocation complex beta subunit [Canis familiaris]  B4-2 protein [Homo sapiens]  catechol O- methyltransferase [Homo sapiens]  catechol O- methyltransferase [Homo sapiens]  AB000910) ribosomal protein [Sus scrofa]
blastx.2							
1161	<del> </del> +	<del>  </del>	<del>   </del>	<del>          </del>	<del>          </del>	<del></del>	
HCOQL87 R	HCOQM87 HCOQM87 R	HCOQM87 R HCOQO79 R HCOQP32R	HCOQM87 R HCOQO79 R HCOQP32R HCOQS11R	HCOQM87 R HCOQO79 R HCOQP32R HCOQS11R HCOQU92	HCOQM87 R HCOQO79 R HCOQP32R HCOQU92 R HCOQV27 R	HCOQM87 R HCOQO79 R HCOQP32R HCOQU92 R HCOQV27 R HCOQX38 R	HCOQM87 R HCOQO79 R HCOQU92 R HCOQV27 R HCOQX38 R HCOQX38 R
HCOQL87	HCUQM8/	нсоому нсооо79 нсоор32	HCOQMS/ HCOQO79 HCOQP32 HCOQS11	нсоому нсоорэз нсооз11 нсоочэз	HCOQM8/ HCOQM8/ R HCOQO79 HCOQO79 R HCOQP32 HCOQP32I HCOQU92 HCOQU92 R HCOQV27 R	нсодмя/ нсодо79 нсоду27 нсоду27 нсодх38	HCOQM8/           HCOQO79           HCOQP32           HCOQV27           HCOQX38           HCOQX33

470	292	482	317	124	305	305	305	317	317	124	419	245	276		369	416	427	463	408	136	409	293	470
351	89	75	120	2	126	123	129	120	132	2	3	3	247		-	297	332	38	115	38	326	273	255
%LL	%86	94%	100%	100%	%95	46%	20%	44%	43%	36%	%86	%16	%06		%18	26%	47%	%26	61%	%06	53%	100%	%26
	dbj BAA28169.1	gb AAA85657.1	dbj BAA06031.1					,			emb CAA40655.1	dbj BAA77672.1			gb AAC48728.1			gb AAA03341.1	gb AAF17196.1 AF1	12208 1			gb AAA91461.1
DR-beta-1 [Homo sapiens]	(AB012122) TIP49 [Homo sapiens]	ribosomal protein L28 [Homo sapiens]	hnRNP B1 protein	Homo sapiens	1					-	pm5 protein [Homo sapiens]	NADH dehydrogenase	subunit 3 [Homo	sapiens	IGF binding protein-2	[Sus scrofa]	•	ribosomal protein L23a	(AF112208) 13kDa	differentiation-	associated protein	[Homo sapiens]	UbcH5C [Homo sapiens]
	blastx.2	blastx.2	blastx.2				*				blastx.2	blastx.2	,		blastx.2			blastx.2	blastx.2				blastx.2
	1175	1177	1178								1179	1180			1181			1182	1185	l I			1186
8	HCORB20 R	HCORB66 R	HCORI18R								HCORI25R	HCOCR82	<b>8</b>		HCRME42		1	HDABR53	HDTA074	R			HDTBP08R
	HCORB20	HCORB66 HCORB66	HCORI18			,					HCORI25	HCOCR82			HCRME42			HDABR53	HDTA074	· ·			HDTBP08

275	441		288	475	549		170			376				128			179	321		190	284		406		517		•	325	
27	259		49	272	475		n			62				3			n	178		2.	186		152		7			· ·	
%68	%88		93%	%56	%08		100%			37%				100%			%68	%68		%08	%69		%96		93%			%06	
dbj BAA85270.1			gb AAD01439.1				emb CAA59735.1			gb AAD15346.1				pir S12206 S12206			emb CAA24033.1			dbj BAA07291.1			gb[AAA97434.1]		gb AAA20843.1			emb CAA24033.1	
cytochrome c oxidase	subunit 1 [Pan	troglodytes]	(AF010472) alpha-	amidating	monooxygenase [Homo	sapiens	alligator Wilm's tumour	protein [Alligator	mississippiensis	(AC004044) predicted	protein of unknown	function [Arabidopsis	thaliana]	hypothetical protein 2	(rRNA external	transcribed spacer) - 1	URF 3 (NADH	dehydrogenase subunit)	Homo sapiens]	NADH dehydrogenase	subunit 2 [Homo	sapiens	cytokine SDF-1-beta	[Homo sapiens]	cytochrome oxidase	subunit II [Homo	sapiens]	URF 3 (NADH	dehydrogenase subunit)
blastx.2			blastx.2				blastx.2			blastx.2				blastx.2			blastx.2			blastx.2			blastx.2		blastx.2			blastx.2	
1188			1190				1191			1192				1193			1194			1196			1198		1199			1200	
HDTDB88	묎		HE8QX44R	,			HE9QU94R			HEAHF02R				HEEAY40R	•		HEGAF68R			HFABK01R			HFIBG63R		HFIJB15R		,	HFIXK57R	
HDTDB88			HE80X44	,			HE9QU94			HEAHF02				HEEAY40			HEGAF68			HFABK01			HFIBG63		HFIJB15			HFIXK57	

				[Homo sapiens]				
HFIZQ64	HFIZQ64R	1201	blastx.2	(AK001601) unnamed protein product [Homo sapiens]	dbj BAA91782.1	100%	48	137
HFKKK36	HFKKK36 R	1202	blastx.2	neutral calponin [Homo sapiens]	dbj BAA12090.1	%96		98
HFPEC93	HFPEC93R	1203	blastx.2	URF 2 (NADH dehydrogenase subunit)	emb CAA24027.1	87% 90%	66	527
HFPIX37	HFPIX37R	1204	blastx.2	(AL137696) hypothetical protein [Homo sapiens]	emb CAB70878.1	51% 41%	. 4	240
HFTDK36	HFTDK36R	1205	blastx.2	folate-binding protein precursor [Homo sapiens]	gb AAA35822.1	100% 38%	341	290
HFVIB28	HFVIB28R	1206	blastx.2	fused-ccdB [Escherichia coli]	emb CAA71575.1	40%	26	175
HFXGR60	HFXGR60R	1207	blastx.2	(AF034746) LNXp70 [Mus musculus]	gb AAC40076.1	26%	347	57
HHAUD07	HHAUD07 HHAUD07 R	1208	blastx.2	GTP-binding regulatory protein Gs alpha chain isoform - 1	pir JH0813 JH0813	75%	337	459
HHBF021	HHBF021R	1209	blastx.2	URF 3 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24033.1	83% 82% 64%	3 248 205	236 328 246
HHEVG50	HHEVG50 R	1210	blastx.2	CAG-isl 7 [Homo sapiens]	gb AAC16021.1	93%	13	474
нн БС бе	HHFGQ65 RA	1211	blastx.2	(AJ249731) putative G8.1 protein [Homo	emb CAB56506.1	81%	107	319

	743	529	435	351 356	138	368	79	480	266	462	276
	3	517	79	61 324	1	3	2	19	3	1	1
	78%	74% 62%	%68	84% 100%	100%	100%	100%	100%	%86	100%	%86
	gb AAC25447.1	emb CAB71165.1	gb AAA19775.1	dbj BAA88116.1	gb AAA31002.1	gb AAA59461.1	gb AAA02999.1	emb CAA63538.1	gb AAC34214.1	gb AAA51809.1	gb AAA17675.1
sapiens]	(AF014888) NADH dehydrogenase subunit 2 [Homo sapiens]	cytochrome oxidase subunit III [Talpa europaea]	cytochrome b [Homo sapiens]	(AB015335) HRIHFB2072 [Homo sapiens]	Na+, K+-ATPase beta- subunit precursor [Sus scrofa]	keratin 18 [Homo sapiens]	antigen [Homo sapiens]	ubiquitin-conjugating enzyme UbcH7 [Homo sapiens]	(AC005545) AP-3 complex delta subunit, partial CDS [Homo 1	ATP synthase beta subunit precursor Homo sapiens	nephropontin [Homo
	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2
	1213	1214	1215	1216	1218	1220	1221	1222	1223	1224	1225
	HHSFG15R	HHSGP15R	HHSGQ17 R	HKBAD05 R	HKZAE07R	HKZAI14R	HKZAI68R A	HKZAQ39 R	HKZAR58 R	HKZAS59R	HKZAS64R
	HHSFG15	HHSGP15	HHSGQ17	HKBAD05	HKZAE07	HKZAI14	HKZAI68	HKZAQ39	HKZAR58	HKZAS59	HKZAS64

				sapiens				
HKZAS84	HKZAS84R	1226	blastx.2	calpain II regulatory subunit (EC 3.4.22.17)	gb AAA30422.1	100%	2	103
HKZAV69	HKZAV69 HKZAV69 R	1227	blastx.2	ribosomal protein S17	gb AAA60284.1	100%	∞	412
HKZAV72	HKZAV72 R	1228	blastx.2	fibronectin precursor [Homo sapiens]	emb CAA26536.1	100%	2	163
HKZBB22	HKZBB22R	1230	blastx.2	(AB015610) ribosomal protein S4X [Chlorocebus aethiops]	dbj BAA36501.1	100%	8	520
HKZBS89	HKZBS89R	1231	blastx.2	ferritin heavy subunit [Homo sapiens]	gb AAA35830.1	100%	1	381
нгроово	HLDQQ80 R	1232	blastx.2	ATPase subunit 6 [Papio hamadryas]	emb CAA76999.1	74%	2 153	142 257
HLDXE19	HLDXE19R	1233	blastx.2	neuron-restrictive silencer factor [Homo sapiens]	gb AAC50115.1	%08	17	187
HLICD55	HLICDSSR	1234	blastx.2	glutamine:fructose-6- phosphate amidotransferase [Homo sapiens]	gb AAA58502.1	%96	56	148
HLJBI37	HLJBI37R	1236	blastx.2	H(+)-transporting ATP synthase [Bos taurus]	emb CAA45865.1	100% 65% 80% 60% 88%	165 329 83 481 450	335 610 187 555 476
HLTHA47	HLTHA47R	1237	blastx.2	100 kDa protein [Rattus norvegicus]	emb[CAA45756.1]	82% 88%	187	393 406

723		265		,	361			342	517	389	314	351		172		201		196	197	155	154	157	156	158	159	153	289
334		2			104			,I	377	207	3	298		315		73.		95	96	8	68	92	91	93	94	91	77
93%	•	%06			46%	-		%98	74%	40%	82%	17%		75%		%98		%19	%19	100%	100%	100%	100%	100%	100%	100%	%56
dbj BAA92068.1	,	emb CAA24026.1			pir JC1348 JC1348			emb CAA24027.1			emb CAA67630.1			gb AAA51596.1		pir C59153 C59153		dbi BAA85438.1					,				gb AAB28951.1
(AK002071) unnamed	protein product [Homo sapiens]	URF 1 (NADH	dehydrogenase subunit)	Homo sapiens	hypothetical 18K	protein - goldfish	mitochondrion	URF 2 (NADH	dehydrogenase subunit)	[Homo sapiens]	cytochrome oxidase	subunit I [Hylobates	lar	alcohol dehydrogenase	[Homo sapiens]	cytochrome-c oxidase	(EC 1.9.3.1) chain I -	(AP000616) similar to	RING-H2 finger	protein RHA1a	(AF078683) [Oryza	satival				•	smooth muscle myosin
blastx.2		blastx.2			blastx.2			blastx.2			blastx.2			blastx.2		blastx.2		blastx.2				•					blastx.2
1238	•	1241	,		1242		•	1243			1244		,	1245	·	1246		1247				١.					1249
HLTJA50R		HLYDI57R	-		HMCF019	8		HMCIZ44R			HMCJE25R			HMSPB25R		HMVBB04	<b>~</b>	HNAAE01	R								HNBUY37
HLTJA50		HLYDI57			HMCF019			HMCIZ44			HMCJE25		•	HMSPB25		HMVBB04		HNAAE01									HNBUY37

	514 384	243 403 404 435	451	390	422	491 541	87	577	535
	242 70	1 245 315 244	224	52	114	3 509		86	101
	74% 55%	100% 41% 46% 35%	%16	95%	91%	83%	93%	%86	100%
	gb AAC52058.1	gb AAC39523.1	emb CAB43181.1	gb AAD05421.1	gb AAA36471.1	gb AAA30032.1	emb CAB42187.1	emb CAA61582.1	emb CAA49189.1
heavy chain isoform SM1 [human, umbilical 1	growth-arrest-specific protein 2 [Homo sapiens]	OS9 [Homo sapiens]	(AL031670) dJ681N20.2 (similar to FTLL1(ferritin, light 1	(AF044957) NADH:ubiquinone oxidoreductase B15 subunit [Homo sapiens]	acidic ribosomal phosphoprotein (P1) [Homo sapiens]	actin 2 protein [Strongylocentrotus purpuratus]	unnamed protein product [unidentified]	ribosomal protein L21 [Homo sapiens]	ribosomal protein L26 [Homo sapiens]
	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2	blastx.2
	1250	1251	1252	1253	1254	1257	1259	1260	1261
R	HNBVL57 R	HNHBC18 R	HNJFE85R	HNKCO29 R	HNOAA22 R	HNOAB88 R	HNOAC15 R	HNOAE50 R	HNOAE65 HNOAE65
	HNBVL57	HNHBC18	HNJFE85	HNKCO29	HNOAA22	HNOAB88	HNOAC15 HNOAC15	HNOAE50	HNOAE65

555	239	108	319	239	313	239	236	236	236	239	239	236	236	239	236	239	236	239	239	239	319	239	236	239	200	236	239	239
92	54		221	3	221	21	54	15	15	72	21	12	n	15	84	66	15	54	9	33	233	69	93	15	<del>ر</del>	93	15	54
100%	64%	72%	75%	37%	%19	39%	44%	36%	37%	44%	39%	42%	38%	38%	45%	48%	35%	41%	35%	36%	62%	42%	47%	36%	38%	45%	35%	38%
emb CAA61582.1	pir A91193 CGBO1S																		-		•							
ribosomal protein L21 [Homo sapiens]	collagen alpha 1(I)	chain - bovine	(fragments)		-																							
blastx.2	blastx.2		·,																									
1262	1264																											
HNOAF22 R	HNOAG34	~																					-					
HNOAF22 HNOAF22	HNOAG34																											

239	236	239	236	236	239	239	322	239	236	239	239	239	319	239	322	. 236	328	328	322	239	319	236	322	316	239	316	316	328	328
93	9	3	69	9	15	84	218	9	21	15	n	m	218	54	227	15	233	233	227	111	218	.21	233	233	114	233	233	227	227
44%	41%	37%	41%	35%	34%	44%	48%	35%	36%	33%	36%	32%	48%	36%	52%	35%	20%	54%	51%	46%	47%	33%	23%	57%	42%	21%	53%	20%	51%
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69	3	233	-	93	233	227	227	221	218	233	212	227	221	233	221	230	227	_	93	227	227	233	227	230	227	233	221	233	227
38%	33%	23%	26%	36%	45%	51%	20%	45%	47%	51%	45%	46%	46%	20%	44%	44%	45%	44%	38%	45%	20%	20%	20%	20%	43%	46%	46%	48%	46%
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233	227	233	227	233	233	227	242	212	227	233	_	230	_	500	260	227		_	227				233	221	_	227	-	_	233
20%	51%	20%	41%	20%	46%	46%	44%	41%	46%	46%	45%	44%	36%	45%	63%	45%	44%	41%	43%	45%	45%	44%	46%	39%	45%	45%	41%	38%	46%
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233	221	-	_	1		212	221	T	,	233	227	227	233	221	,—	-	227		227	_	221	227	227	Π	1	-	218	260	1
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35%	36%	33%	38%	43%	40%	38%	64%	34%	41%	41%	35%	31%	40%	20%	36%	41%	35%	37%	37%	36%	37%	34%	36%	39%	38%	40%	38%	38%	36%
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41%	38%	. 33%	31%	37%	33%	40%	35%	31%	34%	37%	40%	38%	33%	37%	36%	31%	38%	36%	38%	36%	40%	38%	36%	37%	36%	32%	33%	30%	35%
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1		218	227	-	<u> </u>	_	233	233	221	233		233	233	238	250	357	238	357	321	235	318	318	238	238	199	238	321	318	318
33%	30%	. 38%	35%	38%	31%	35%	34%	36%	39%	35%	36%	35%	34%	38%	34%	45%	38%	44%	48%	39%	20%	48%	37%	35%	39%	47%	46%	47%	45%
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238	220	318	360	318	238	318	253	199	238	315	315	357	238	238	318	357	318	238	318	354	318	357	238	238	238	238	318	315	321
37%	2007	30%	42%	48%	31%	51%	79%	20%	38%	. 46%	46%	44%	38%	37%	45%	40%	43%	39%	44%	39%	46%	44%	41%	35%	38%	34%	45%	44%	43%
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321	238	238	318	321	238	238	315	318	321	238	238	238	235	238	244	238	238	238	238	238	318	318	318	318	321	318	330	321	321
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38%	33%	%18	100%	72%	75%		%86		91%	%68		%66	%88	95%	%26	%26	100%		100%	100%	
		gb AAA18502.1	dbj BAA19211.1	gb AAB61308.1			gb AAA36318.1		gb AAA36021.1	gb AAA52390.1		dbj BAA04491.1	gb AAF28938.1 AF1	61378_1	gb AAA36597.1		gb AAB00774.1		gb AAA59203.1	dbj BAA36616.1	
		elongation factor 1 alpha [Oryctolagus	(AB000911) ribosomal protein [Sus scrofa]	(AD001528)	spermidine	aminopropyltransferase [Homo sapiens]	MAP kinase kinase	[Homo sapiens]	Q1Z 7F5 [Homo sapiens]	epoxide hydrolase	[Homo sapiens]	TAXREB107 [Homo saniens]	(AF161378) HSPC260	[Homo sapiens]	scar protein [Homo	sapiens]	proteoglycan core	protein [Homo sapiens]	glutathione transferase M1 [Homo saniens]	(AB016193)	transcription factor
		blastx.2	blastx.2	blastx.2			blastx.2		blastx.2	blastx.2		blastx.2	blastx.2		blastx.2		blastx.2		blastx.2	blastx.2	
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		HNOAH67 R	HNOAJ67R	HNOAL51	묎		HNOA071	8	HNOAP21 R	HNOAQ24	R	HNOAQ47 R	HNOAR85	8	HNOAS07	R	HNOAS36	<b>x</b>	HNOAS92 R	HNOAT76	R
		HNOAH67	HNOAJ67	HNOAL51			HNOA071 HNOA071		HNOAP21	HNOAQ24 HNOAQ24		HNOAQ47	HNOAR85	R	HNOAS07		HNOAS36 HNOAS36		HNOAS92	HNOAT76 HNOAT76	

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[Homo sapiens]	ribosomal protein L28 [Homo sapiens]	translation initiation	factor eIF3 p40 subunit	[Homo sapiens]	ribosomal protein L12	[Homo sapiens]	(AF083217) WD repeat	protein WDR3 [Homo	sapiens	alpha-1 type III	collagen [Homo sapiens]	The second secon	TARBP-b gene product	TARBP-b gene product [Homo sapiens]	TARBP-b gene product [Homo sapiens] (AF043254) heat shock	TARBP-b gene product [Homo sapiens] (AF043254) heat shock protein 75 [Homo	TARBP-b gene product [Homo sapiens] (AF043254) heat shock protein 75 [Homo sapiens]	TARBP-b gene product [Homo sapiens] (AF043254) heat shock protein 75 [Homo sapiens] ribosomal protein L7a	TARBP-b gene product [Homo sapiens] (AF043254) heat shock protein 75 [Homo sapiens] ribosomal protein L7a ribosomal protein L7a large subunit [Homo sapiens]	TARBP-b gene product [Homo sapiens] (AF043254) heat shock protein 75 [Homo sapiens] ribosomal protein L7a large subunit [Homo sapiens] translational elongation	TARBP-b gene product [Homo sapiens] (AF043254) heat shock protein 75 [Homo sapiens] ribosomal protein L7a large subunit [Homo sapiens] translational elongation factor-1 alpha [Danio rerio]	TARBP-b gene product [Homo sapiens] (AF043254) heat shock protein 75 [Homo sapiens] ribosomal protein L7a large subunit [Homo sapiens] translational elongation factor-1 alpha [Danio rerio] tumor protein (AA 1 -	TARBP-b gene product [Homo sapiens] (AF043254) heat shock protein 75 [Homo sapiens] ribosomal protein L7a large subunit [Homo sapiens] translational elongation factor-1 alpha [Danio rerio] tumor protein (AA 1-172) [Homo sapiens]	TARBP-b gene product [Homo sapiens] (AF043254) heat shock protein 75 [Homo sapiens] ribosomal protein L7a large subunit [Homo sapiens] translational elongation factor-1 alpha [Danio rerio] tumor protein (AA 1-172) [Homo sapiens]
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	HNOAV91 R	HNOBE83	۳. د		HINOBV55	RA	HNOCE63	<b>8</b>		HNOCL43	<b>X</b>		HNOCN02	HNOCN02 R			HNOCN02 R HNOCN10 R	HNOCN02 R HNOCN10 R HNOCR44		HNOCN02 R HNOCR44 R HNOCR44 R	HNOCN02 R HNOCN10 R HNOCR44 R HNOCU03	HNOCN02 R HNOCN10 R HNOCR44 R HNOCU03 R	HNOCN02 R HNOCR44 R HNOCU03 R HNOCU03 R	HNOCN02 R HNOCR44 R HNOCU03 R HNOCU03 R
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general transcription	Tactor [Homo sapiens]	antioxidant enzyme	B166 [Homo sapiens]	midkine [Homo	(AF077054) unr protein Homo sapiens	.∾	adenosylhomocysteine	hydrolase [Homo	ubiquitin [synthetic	construct	(AF035718)	mesoderm-specific	basic-helix-loop-helix	protein; Pod-1 [Homo sapiens]	ribosomal protein L23a	[Homo sapiens]	plasma gelsolin [Homo	sapiens	von Willebrand factor	prepropeptide [Homo	sapiens	1		
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				alpha-tubulin III [Cricetulus griseus]	Protein sequence and	annotation available	soon via Swiss-Prot; 1	[Homo sapiens]	1																		,	
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															envelope protein	[Homo sapiens]	(AJ224875)	glucosyltransferase	[Homo sapiens]	signal recognition	particle subunit 14	[Homo sapiens]	hnRNPcore protein A1	[Homo sapiens]	(AF009368) Luman	[Homo sapiens]	ribosomal protein L6	[Homo sapiens]	ribosomal protein L29
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